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       Grant, Struan F.
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gtatattgta aaataaacaa aaaatagaac ttattttat tatggaaagt gactattttc 634800
atctttatt atataaatat attacaccat ctgcgtatat gtaccatata gtgagttatt 634860
tttaccaagt tttgtgttgt gtatttgt                                    634888
```

<210> 2
<211> 173
<212> DNA
<213> homo sapiens

<400> 2
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tcctcagaac aggtgcaaca cagtgtgttt tgctggggaa aagggatgtc aagcaatcta 60
tgacgggggt gcagggagtc tggggagaaa cacaaggaag tgtgtgtgtg tgtgtgtgtg 120
tgtgtgtgtg aatgtgtgtg tgtgtgagag agagagctgg tgtttgtgtt cca         173
```

<210> 3
<211> 333
<212> DNA
<213> homo sapiens

<220>
<221> misc_feature
<222> 88, 164
<223> n = A,T,C or G

<400> 3
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ggaatgtgcc aagacattct ttagggttgg taaccagaga cgctattttg tccttggtgg 60
ctaagaaatc acttttctga ctgaaggncc atttgactta cttctttaa attcagggga 120
atgggtgggc atctccatga ttcaggtaag gaaaaatcca aggnaaataa acacacacac 180
acacacacac acacacacac acacgggag tagaaatttt tagtgcaatt ttttgtctca 240
cagcattaat taattgcagg gatataacta ccttggcaga attttttctc cccaacccac 300
caccccccgg aataagtttg gctcttttca gct                               333
```

<210> 4
<211> 166
<212> DNA
<213> homo sapiens

<400> 4
tgcccactca taagatgctg aggttacaac tgttaataag atattaagat actgtctttt 60
tcttcctctt tctctcttac acacacacac acacacacac acacacactt tttgggccaa 120
ctggaaattc atacattctc cccagcactg gagctcaaag cgtctg   166

<210> 5
<211> 360
<212> DNA
<213> homo sapiens

<400> 5
ttgttgttgt tggtggtggt ggggtgtgtg tgtgtgtgtg tgtgtgtgtg tgtgtgtgtg 60
ttcgagacag actctcactc tgtcacccag gctggagtgc agtggcacga tctgggttca 120
ctgcaacctc tacttcctca gctccaagga tcctctcacc tccacctccc aagtagctgg 180
gactacaggt acgcgccacc atgtctggct aatttttttg tattggagag acagggttcc 240
accatgttgc ccgggctagt gttgcactcc tgagctcagg tgatccaccc acctcaacgt 300
ccccaagtgc tgggattaga ggcgtgagcc accacgtctg gcctatacac tatagagttt 360

<210> 6
<211> 212
<212> DNA
<213> homo sapiens

<400> 6
tctggacagg accaggagtt ggctgctgtc agcctttgcc ccacctctct gtggctactg 60
ggtatgtgaa tctctcaagg cctgaagaga ggacagctga ggaatttgga aatcctaaaa 120
cacatgcata cacacacaca cacacacaca cacacacaca cacacacact tttctttccc 180
ttaaaaaaaa aaagattcat tcaccgtgtg ca   212

<210> 7
<211> 347
<212> DNA
<213> homo sapiens

<400> 7
ctgtctacac tacccaccca ttagtcactt attagccctc tgaattactg gattgaaaaa 60
acatagtata tatatagggc ttggtactat tcacggtttc aggcatccac tgaggggtgt 120
tgcaatgtat ctcccacgga taaggaagga ctggtatatt aacacttta tttgatttac 180
aaaataaagg atagtttata tagttctggg taaaattaat taattaattt aaaaggaaaa 240
aagataaagg caaactttaa gcttgttaaa aattaagtaa aataatttgg attatttaat 300
tggacaaaga ggactggctt tgccaatgaa acaatatggc cgacatg   347

<210> 8
<211> 195
<212> DNA
<213> homo sapiens

<400> 8

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ggaccttctt tctgccctaa aaccgcaata tcattataat aacaaatata tatatatata 60
tatatatatt tttttttttt aaaacaatct tgctatgttg cctaggctgg tgtggaactc 120
ctggcctcaa gtgatcctcc cacctcggcc tcccagagtg ctgggattat agacatgaac 180
taccataccc agcca                                                   195
```

<210> 9
<211> 308
<212> DNA
<213> homo sapiens

<400> 9
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cacagccatc aagtttccaa cttactgcct cacatattaa gatgattttt ttaaacaaac 60
ttaacaggcg atggatactc cattctccat gatgtgctta attcacatgc atgcttgtat 120
caaaacatct cacatactcc ataaagcctg taatcccaac actttgggat gccaaggtgg 180
gtggatcact tgagcccagg agtttgagaa cagcctggac aacatggcga aaccccattt 240
acacacacac acacacacac acacacacac accacacaaa caaaatgaaa caaacaccta 300
accaacaa                                                           308
```

<210> 10
<211> 305
<212> DNA
<213> homo sapiens

<400> 10
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tcctaacggc tgctaccact aaagatctta gcatggtgtg tgtgtgcgtg tgtgtgtgtg 60
tgtgtgtgtg tgtgtgtgtg tggtggggct attcagtaag gctagaagtg aaaaagctag 120
tagaaagccc atggtgatgg agaatggagg aagactgatt agggagctcc tcagcagtat 180
aaggaaggac taagagcaca taaggacagg atcatagaat tccgcatctc aggatttttg 240
aggctgccac tgccttagct gtgaggccag tgcatataag aatagtttgc acagttctgc 300
tgtgg                                                              305
```

<210> 11
<211> 370
<212> DNA
<213> homo sapiens

<400> 11
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cctctgggat tagcctctca gggtacagat ataacgatga ttgagttggc ttatgtatgt 60
gtgtgttgtg tgtgtgtctg tgtgtgtgtg tgagagagag agagagagag agagagagag 120
tgacagagag agaatgagag agaactggaa gttgtcaaca agaagagtca aactctgtaa 180
aatatttgaa gagatttatt ctgagccaaa taggagtgcc acagccccgg gagatcctaa 240
gaacatgtgc ccagagtagt caagctatag tttggtttta tacattttag ggagacataa 300
gacatcagtc aatacatgta agatgcacat tgatacactg gtttagtagg gaaaggtggg 360
acaactcgaa                                                         370
```

<210> 12
<211> 251
<212> DNA
<213> homo sapiens

```
<400> 12
ggtgccaatt aaatccaaca aggtagctga gtgtggtggt gcacgcctgt agtcctagct 60
atgcaggagg ctgaggtggg aggatcactt gagcctggga ggtcgaggct gctgtgagct 120
gtgattgcac cgctgcattc cagcctggga gacagagcaa gatcctgaca cacacacaca 180
cacacacaca cacacacaca cacacacaca cattccaaca aggtaatgtg taggaggaag 240
tacccgagct t                                                    251

<210> 13
<211> 335
<212> DNA
<213> homo sapiens

<400> 13
caactcctgc agccctttac gccaagcaca gaaatccagg aggcagagcc tagcgcttga 60
tgacatggta attgggcctg gaagtgggga tttctgtcac ttacctctcc ttgaaaaata 120
atcactattg ccaacgcctg gttaattagc ctgattcaat tctcttcagc ctcattttgc 180
tcaaatctac cagatttgtg gtgctccttg gtcctccacc acactttcta cccctcatcc 240
cactttgtgt gtgtgtgtgt gtgtgtgtgt gtgtgtgtgt gtgtgtgtgt gtgtgtgtag 300
gacatggcca ggaatcctga ctggcttcct ttaaa                          335

<210> 14
<211> 167
<212> DNA
<213> homo sapiens

<400> 14
aagaccaccc tcctgttgtg ctctcctgaa atgtattcat atccacccat acacacacac 60
acacacacac acacacacac acacacacac acacacacac acattctctc tctctctctc 120
tttctctctc tctcttaaat gtcagttttc tcttcctgct ttccaga                167

<210> 15
<211> 255
<212> DNA
<213> homo sapiens

<400> 15
cttgacattc agggccttct gagtacatca tcttgtcaag aaacactgaa ctattcagta 60
cacaacaggt cagaggtgcc catttgatag cctgaggatg gaatccttat tgcagcattt 120
tgcgtcatgc cacatatatg tgttttttca atcctcctct gttttaaaaa ttggaaaatt 180
tcatacaaca cacacacaca cacacacaca cacacacaca cacacacacc ccccatacca 240
caccacacca catca                                                255

<210> 16
<211> 152
<212> DNA
<213> homo sapiens

<400> 16
agcctctgac tctcctctgt ggggctaatc cagaaaatct tactttagaa ataacaataa 60
taataataat aataataata atacctcatt catctttact tatcatgtgc tagtatgttt 120
```

```
ctaagccttt tggcatagcc ttcaatgtcc ct                                152
```

<210> 17
<211> 230
<212> DNA
<213> homo sapiens

<400> 17
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ctcttcccat gtcctgcttc tctccttcct gcgggttggg acccagtacc ctccatctct 60
ctcactcctc ccctctcaaa cccttctttt aggaaaggag tccaaatcga ccacttacac 120
ctcagttcaa tgcaagccag tataattaat aaggaacatt taagggtgtg taagggtgtg 180
tgtgtgtgta tgtgtgtgtg tgtgtgtgtg tagctcactc tgcctctgcc            230
```

<210> 18
<211> 360
<212> DNA
<213> homo sapiens

<220>
<221> misc_feature
<222> 33, 36, 72, 281, 311
<223> n = A,T,C or G

<400> 18
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gatcaccagg gaatctagat ggaatccata gtnctnccct gcaagaatgc tgcaattctg 60
taccgtggag gngccaacag aatcaccagg ctctgtgact cagtcacaac accctgacct 120
gcccctgtcc attctccata tcatacccag agtggtcttt tcaaagcaca gctttgacca 180
attctctgtc tttcacacat acacacacac acacacacac acacacatgc gtgcatgcat 240
gcctgaaata gtatagtatt gctcttaaga taaacattaa ngttcctacc atggtacaga 300
aaatatatgt ngttaggccc cgtggctctt tcttttccag actcctctta ccctttttgtg 360
```

<210> 19
<211> 133
<212> DNA
<213> homo sapiens

<400> 19
```
aaatcttcca ttgcagacca attaaaattt aaagattttc tctctctttc cccctcttct 60
ctctctctct ctctctctct ctctcacaca cacacacaca cacacacaca actctccaag 120
cacaaagagc tga                                                    133
```

<210> 20
<211> 245
<212> DNA
<213> homo sapiens

<400> 20
```
tgagtggatg agggagaagg ataaaagtca taaaatgcct cgcaaaaact ttgaggtctg 60
cctgcctggt attacagaga agcttgcaca atacagaatg ttttgtggga aggaaggcag 120
```

gcaggcaggc aggcaggcag gcaggttggt tatgttttca ctcttgatat ctcaaagctt 180
tatgacacac tcatggagtg aacataatct ttgtggcatg atacaaaggg actgaatcac 240
tcaag   245

<210> 21
<211> 278
<212> DNA
<213> homo sapiens

<400> 21
agctatgatc atgccactgc actccagcct ggctgataga atgagattct gactcagaaa 60
aatataaaca cacacacaca cacacacaca cacacacaca cacacacaca cacacaactt 120
tctgtctgcc cccttgctct tcctgtccca tctctgcctt tcttctttcc tctctttgtc 180
aaatctcctt cgtctgcctc acaaaggcca gtgagcccca gccgcagacc agggaagcca 240
gcaaattagg aattttcttc acaaagtttt gagtagct   278

<210> 22
<211> 184
<212> DNA
<213> homo sapiens

<400> 22
tctcccatct cctccctagc tatcccctgc ctggtaatca ctgttttgtt ctctatttct 60
gtacagttgg gtttttgttt gtttgtttgt ttttagattc cacatatact tgaaacaatg 120
caatcttttt ctttctttgt ctggtttatt tcacttaaca cagtgcactc caggctcgtc 180
tatg   184

<210> 23
<211> 377
<212> DNA
<213> homo sapiens

<220>
<221> misc_feature
<222> 124, 175, 320
<223> n = A,T,C or G

<400> 23
ccagaaagct tcaccaaggg gcgagcatga ttatgcatga gcttcttaaa tctggacttc 60
ccgacagctt ctcatgacag gtcttctgtg gaagactcct tagattcaga ccatcaggcc 120
tttnaaaagc acaggaacct actttacctc gcccaactct acggatggga taggnactta 180
caaggacatt tcctcattgg attccaatgt tcattctccc cttctctctc tcaattaatc 240
tccccctctt ctctttctat ctacacacac acacacacac acacacacag agagagagag 300
agagagagag agagagagan agaaacagct tcttcacagc gggaagcagg ggaagggtat 360
ctatttccgg caagatc   377

<210> 24
<211> 379
<212> DNA
<213> homo sapiens

<400> 24
aaagtcagct agggcgactg agccagagag atggggcaca cagcaagagg agacctgaca 60
aagtgcaggt gtgtcctaga gaaggcaagc gagaccactg catgattgga ataccagcca 120
acccttgcct gttcttgttc cagcaaagtg cccttttaaa ataaatttat gtatatagtc 180
tctgtgtgtg tgtgtgtgtg tgtgtgtgtg tgtgtataga catatagaaa tatatattcc 240
taattcagaa ctcattcgta agtgcacaca ctgacatgtg tttcatgttt cccaatttat 300
cccagagcct atatgcagtg tttggctgca caagtaggca ttaaatgcaa ccactgggaa 360
tgagaatggt ggccacaac 379

<210> 25
<211> 370
<212> DNA
<213> homo sapiens

<220>
<221> misc_feature
<222> 24, 97, 104, 274
<223> n = A,T,C or G

<400> 25
agctttgaaa tcccatccaa actnattggc gtttcaaact gaatcccaga tgttcactta 60
ctgagaaata aatgaatggc ccaattcgtg gactgangca gggnccctca caaatagatt 120
ccaggtgtgt tggcctctgg accactatct ttctctgttt tacatacaca tacatacaca 180
cacacacaca cacacacaca cacacacaca cacacacacg gcaccaagtc catcctgaaa 240
agaattcaac gtcatctcca agttagagcc agtntaggat gaacagaggt agttacctaa 300
cacaaataac atattttcaa ttgtggatga aggcaaaggg ctccacattc acactcttgt 360
gccttcaata 370

<210> 26
<211> 154
<212> DNA
<213> homo sapiens

<400> 26
ggcatgggat gtttgaccta agagatggac taaagccaat gagtaaaaat gtaaagcgta 60
cttagtcaaa taaattcttc tctctctctc tctctctctc tctctcctta ttcatcactc 120
ttgggccgtg atgatgatga gggagaggag cagt 154

<210> 27
<211> 390
<212> DNA
<213> homo sapiens

<400> 27
tatttgcctg cctgggttag atgattctcc aggcttctac acaattttat gtttatatga 60
aaatagccac aaagggaaaa gaggacaata aaacaagaga tatgaataat aatgtattgt 120
atacttgaaa tttgctaaaa gagtagatct caagtgttct acatacacac acacacacac 180
acacacacac aaaggtaatg aatgagatga taggtgttaa ttaacttgat tgtggtaatc 240
acttcacaat gtatacatat aaaaacatca tgttttacaa cctacattta tacaattcct 300

```
caattatata tcaataaacc tggaaaaata aagatgtata aaaaagattt acaaataaga 360
tttttaaaaa aggattgtga ggaaacaaag                                    390
```

<210> 28
<211> 192
<212> DNA
<213> homo sapiens

<400> 28
```
accagctaac ctgccatgag actgttgtgt agccatcttc acctcctcat cttcagggaa 60
ggggatgaaa atatctgtgc actgcaaatg ttaactatat atacacacac acacacacac 120
acacacacgt acagtaggcc ctccataacc tgaggttcca catctgcata ttttaccaac 180
tctggtccct gc                                                       192
```

<210> 29
<211> 242
<212> DNA
<213> homo sapiens

<400> 29
```
ttgttcctga atgggaggag gactggtgag tgaggggaa agaatggaga caggactgag 60
aagaaccaga aattaaaata atagtagtaa tagcctaaca tgtacacgta tatgagatct 120
atctatctat ctatctatct atctatctat ctatctatct atcatctata tatctatcat 180
ccatcatgta tctatctatt tgcatatata agctataata tctggctctg ttctaattgt 240
tt                                                                  242
```

<210> 30
<211> 249
<212> DNA
<213> homo sapiens

<400> 30
```
ccaggcttgg atgagagaat aatcttaagg aagtcagcat atgttctaga aacattcaga 60
agacaaaaga gtctgttatg aaagaacaaa gtatttgtaa taataaattg aatgttacat 120
ggacacaccc agacatacac acacagacac acacacacac agttttttctt ctctctctct 180
ctctccccac tcccctctct catactttgc aaacaagctc ctcagcagct ggtaagctgt 240
tccctgtcc                                                           249
```

<210> 31
<211> 305
<212> DNA
<213> homo sapiens

<400> 31
```
tcctgactgc tcaaagctca aggtgttgcc tttttcaaat gggatgcaat agcctactca 60
ttttccaaga ttaaagctag agagaagaat gaatgaatga ataaataaat aaataaataa 120
ataaataaat aaataaatga gcaaagttaa tattagctgg aaaaaatagg gtacaggtgg 180
aaggaatgaa cccatattga gagtccacta tgtgtcaaat tccttgcatg gaatctctaa 240
ggtctgtcta gcttaaaagc aatgccagcc ttgctatctg tacttgatga ggagatggat 300
cggaa                                                               305
```

<210> 32
<211> 353
<212> DNA
<213> homo sapiens

<400> 32
ccaaactgca aacccaaact tctacaatga attcatgtgc aacttattct aaaagatcta 60
tacacacaca cacacacaca cacacacaca cacacacaca cacttcctgt cctattgctc 120
ttcactactt ccttcatctc tgtgctacaa tctgggttca tttttcttcc ccttgagtaa 180
tttattatgt tttttacagt gagtctgttg ctcaaaaatt cttttagtat ttatttgtat 240
aaaaagtctt aattttgtct tcatataaaa ttttgtttga cactctatta taaattgact 300
gttattctct ttccatgttt tccggacata gttccattgt cttctgactt cca 353

<210> 33
<211> 267
<212> DNA
<213> homo sapiens

<220>
<221> misc_feature
<222> 4, 55, 133, 189, 227, 228, 252, 259, 263
<223> n = A,T,C or G

<400> 33
ttcnacctta tgggtatatc gaattgtaac cccgttgtag gtcaaggagc atctncatat 60
atacatacat agatgataga tagatagata gatagataga tagatagata gatagataga 120
tttaattcta aantttccaa atactctttc atttaaatga ttatagtttt acaacaattt 180
catatattnt ataggtagga gaattagggt tttccagaga aatagannca ataggctgtg 240
tgtgtatata angatttant ttnaaga 267

<210> 34
<211> 299
<212> DNA
<213> homo sapiens

<400> 34
gttgggcatg atggtgtgta cctatagtcc tagctacctg ggaggctgag gcaggaggat 60
cccttgagcc caggagttta agactaacaa gactccatct ctgaaaaata aggcaaaaaa 120
agtatgaaga ataaaataac aatcacttac attccaacca cctataatta atcattgcca 180
acacctgagg atatttgctt ccaatctaca agactgcatt attattatta ttattattat 240
tattattatt attattatta ttattattat tgagatgggg gtttctcttt gttgcccag 299

<210> 35
<211> 393
<212> DNA
<213> homo sapiens

<400> 35
gcagacaggg ttcaaattcc agcctcccct catattagct gtgtgatctt aggcaagttt 60

```
attcatgtgt aaaaagaaat aataacctct tctcgtgggg ttgcaggtta aacaaaagag 120
taggtattaa aacaactaaa agagtatgat tggattgttt ataacacaaa ggataaatgc 180
ttgaggacat ggatccccat cttccatgat gtgatttta tgcattgtat gcctctatca 240
aaacatctca tttactccat atatatgtgt gtgtgtgtgt gtgtgtgtgt gtgtgtgtgt 300
gtgtgtgtgt gtatgtgtat gcacacacta tgtgcccaca aaaattaaaa attttaaaat 360
taaaaaattt taaaaataaa catgctgctg ggc                            393
```

<210> 36
<211> 201
<212> DNA
<213> homo sapiens

<400> 36
```
agctgccagc acacaaggcc cagaggtact ttattggatg ccaaattctt ttaacacacc 60
atgagaaaag aagttgacaa ctttcccatg cattttggaa ggtgtgttag aacgattcaa 120
cacacacaca cacacacaca cacacacaca cacacacaca cacatttatt gggttggggg 180
agccttaaaa cttacaaatc t                                         201
```

<210> 37
<211> 246
<212> DNA
<213> homo sapiens

<400> 37
```
aatttcttac cctttatccc cgtcttctac tcccattcca catgcccccc accccccatg 60
aatgatttgt ctaatgcgtt gaatatgcac gtgtggtttt gggtgcatgt atgtttacac 120
acacacacac agactctctc tctctctctc tcacacacac acacacacac acacacacac 180
acacactcat gcctctcctt tgaagaggat cagatatgga cagcaaaggg cattagcatc 240
ttagct                                                         246
```

<210> 38
<211> 351
<212> DNA
<213> homo sapiens

<400> 38
```
gctccaaagt tcctgattcc aaagcctaag ttaagccatc ttaacttata tttcaggtga 60
ctagtggaat tttttatgcc cagtgtaggt ggtaatgacg atggagatat ggcgatgatg 120
atgatgatga tgatgatgat gatgatgatg atggcagtag tggtggtggt gttggtgatg 180
gtgttgaaga tcaccatgtc tgaccactgt tgtctgtgtc ctttgtacaa ttgttcagat 240
gcagtgtcct ggttgtcaca tagatgtctc tgactgtttt acaggccttc acctaccacc 300
atatccagga gatcatggtc cagctgctgc ggacagtgaa ccggacagtc a          351
```

<210> 39
<211> 364
<212> DNA
<213> homo sapiens

<400> 39
```
ttaacccact gctcccattt tgctggtgga aaactgaaaa ccaaagagat taagtcattt 60
```

```
acccaaggtc atgtaactaa tatattgaat ctcagatgtt ttaatgattt tgactcattt 120
ccaatttgcc tggctatata gagaaaatat ttgaggaatt gacagggaac acacacacac 180
acacacacac acacacacac acacacacac acagagggag ggaggggaga gagagagaca 240
gagacagaca gagactgaac agattatttc tccactgatg ttcattattt agatctattt 300
tcaacatttta aaggcaattg tcagcatagt caattcagcc attttaaacc atcaagggcc 360
aatg                                                             364
```

<210> 40
<211> 161
<212> DNA
<213> homo sapiens

<400> 40
```
gcaacctatt tgttagcagc acatgcgtgc gtgtgcatgc acgtgggcac acacacacac 60
acacacacac acacactctt tgcaggggaa ttttgagcca gaaatttatc tgtaggccca 120
tattcattcc tttttgcaca tttctattgt gaccttgggc a                    161
```

<210> 41
<211> 269
<212> DNA
<213> homo sapiens

<400> 41
```
caattccaca cagctggaga gtaacaaagc cagaaatcac atccatttgt gtgtgtgtgt 60
gtgtgtgtgt gtgtccaaat cctgtgattc cagtgccagg atacactgtc ttccgtgttc 120
aacagtcatg aaagtatttt aatgaacacc tggccctgca gtgcctgatg tagcaaatgc 180
tgcagatact ccacccaccg actcttggac cacccaaaat ccactggcag cttcagtgag 240
gctttcctac ttctttcttt ccctgggct                                  269
```

<210> 42
<211> 251
<212> DNA
<213> homo sapiens

<400> 42
```
cactggactt ggagtcagga catcatttta acagctttat cgagatgtaa tttacatgcc 60
atacaattta cccaaagtgt acaatcattg actcttagta tgttcacaga gctatgtaac 120
catcaccaca atcaatttta caacattttc attactccta aaaagcaaac ctgcacccct 180
tagccactgc tctgccaaca cacacacaca cacacacaca cacacgcgtg cgcacacaca 240
cccaaacact c                                                     251
```

<210> 43
<211> 141
<212> DNA
<213> homo sapiens

<400> 43
```
cgcgtgtacc tccacataga tgtttgccaa tgcctatgcc caagacacac acacatacac 60
acacacacac acacacagga tacattcaag cacacactaa tgtatgtgca cttgcctgca 120
cagagtccac atcacacagg c                                           141
```

```
<210> 44
<211> 328
<212> DNA
<213> homo sapiens

<400> 44
agcttctagt ctgctatgtt gctaattgtc ttcttggtca tcttttaaaa ccatttctgt 60
gaaattatag cctccttact cccttaccct gagtctggat gtttctgaag atgactgatc 120
tctacagtga gaaggccctg ggaattgact gactcactct ctctgtctct ctctctctct 180
ctctcacaca cacacacaca cacacacaca cactcatata catacacaca tagatacaca 240
tatacatgca tccacacatg cacaccctgg gcacacccac acaccctaca actgcacatg 300
catgcacaca cataatgtta actgaagg                                   328

<210> 45
<211> 313
<212> DNA
<213> homo sapiens

<400> 45
agcttttggc tatggaacct taggcaagat gttcataaac cctttaatct ctagtgccct 60
tgttcataaa aagaagtgaa tcggatccct gcaggactgt ttttgtattc agtgcacagg 120
tgtgtgtgaa gacacccagc atgttgccag gcacacagag atgtctacct tgatactttt 180
ctctcctcct ccccgcaaat acacacacac acacacacac acacacacac actcacacac 240
tcttattttg atcttggcct gaggctgaca agccccagat tagtgatcag tgacaatttc 300
ggctttatca gct                                                   313

<210> 46
<211> 242
<212> DNA
<213> homo sapiens

<400> 46
cgaggatgca cacctcatta attgaggagc taggatttag atccagagcc tcatgattct 60
aaagcctgtt ttttgtttgt ttgtttgttt gttttgtttt ggccacacta ggtttctaga 120
aacttccagt tccttcttaa aagtcctttt tgggcattcc ggcctaaatc ccaaaactgt 180
ggtctgggta caagagagaa ttaggccagt gagaaaaatt taaaccaccc tgccctctaa 240
at                                                               242

<210> 47
<211> 623
<212> DNA
<213> homo sapiens

<400> 47
cttgatgtct tctttcacca tcccctggca cccgcctata catttattac ttgaaacaga 60
ctgaccttta tttggttagg ccactgtggt caggtttctg caacatgggg tcacatgcct 120
tcccaactga cacaagtctc aagctccttt tctcttcttt ttataacttc tagaagcata 180
gcttctacca gataaggatc taacctttc agtggaaaac aaaaatggca aagaagtaaa 240
gaaagaagag agagaaagaa gaaagaaaga aagaaagaa agaaagaaag aaagaaagaa 300
```

```
agaaagaaag aaagaaagaa agagagaaag aaagagagaa agaaagagag aaagaaagag 360
agatggagag agggaaggaa ggaagaaaag aaagagaggg agaagaaaga agacagggaa 420
ggaaagggaa gggaaaagag ggaaggggag aggggaggac aagggaaggg gagaggggag 480
gacaagggaa gggaggaagg aagaaaggaa ggaaagaagg caggaaggaa ggaaggaagg 540
aaggaagaaa ggaaggaagg aaggaaggaa aaataactag ggcctttcac ttttgccttc 600
aatagcagag tggccctgga tat                                         623
```

<210> 48
<211> 372
<212> DNA
<213> homo sapiens

<400> 48
```
tattggcaga gggtgagtcc agtgtataaa agcaactata tttgtgcaat aaggcaacct 60
ctaaacacaa gttactactt catctaatgc cacacacaca cacacacaca cacacacaca 120
cacacgagtc atctgttcca aggctgttgc ctttactaag tgatgctatg ttggtccttg 180
aggtggtgcc ttcctgaggg ttttcaagca tagctttggc catgcacagt tttcttctta 240
tacacactct gaggagcccc gccgtcacgg taatgcacct gcctcacaag ctggtgggca 300
gcttaaatga aatacacatt ttgctccagg cccagcacta gctcatcaat gtgagctggt 360
gttagcctca cc                                                     372
```

<210> 49
<211> 140
<212> DNA
<213> homo sapiens

<400> 49
```
cagtagccag gaagctgagg aacacacaca cacacacaca cacacacaca cacacacaca 60
aacacacccc ttcctggctc cagttccgca ccaccccaca cccccaacac cggaagtaga 120
tttctcaata ggcagggctg                                             140
```

<210> 50
<211> 301
<212> DNA
<213> homo sapiens

<400> 50
```
tttgccagaa tgtcctcaca ccaaatagtg gaccccttct tttgctgatt tatctgctat 60
tgtataggtg tatgtgtgtg tgggtgtgtg tgtgtgtgtg tgtgttaagg caggtggtag 120
tatgtgtagg gtagggtttc cccagtcacc tggagccctg agtgcctgct tccctaaact 180
aggccagttt agctgactgg cttcctttgt gtattggtcc attctgcatc aaaagcatct 240
gaattttcat tcaatctctc ttctgaattt tcacttttaa aaacctgacc agtcccttgt 300
g                                                                 301
```

<210> 51
<211> 203
<212> DNA
<213> homo sapiens

<400> 51

```
ctcctccatg gtagggactg gttctcttag gcccctgtat cctcaggccc agcatgcttg 60
ggaaaatgtt tgctaatgct ttgtgactca aaaggaatca cacacacaca cacacacaca 120
cacaaacaca cacacacagt ttttaatatt atcagtcata tcagccccct gaggcagctg 180
ctctgttcca gacaaaccct gtt                                          203

<210> 52
<211> 138
<212> DNA
<213> homo sapiens

<400> 52
gggtacagga gagttgtggt gggcattagt actactcctg ctgctgctgc tgctgctgct 60
gctgtgtcca ctgttagtga cagaagtggg aaaatattta agttgagttc acattagtgt 120
tcccagttta gcgtgagc                                                138

<210> 53
<211> 250
<212> DNA
<213> homo sapiens

<400> 53
ccatgagttc aggcagtggg ttaaataaga tttcccttga agtcgaatga aatcacaatg 60
caccacacac agggacacac acacacacac acgcacgcac gcacatcaca cacacacaca 120
cacacacaca cacacacaca cacacataca cacacacagt ctccctgggg ccaatctact 180
gccccctgaa cctcacccat cagccaggtg cctggccccg ggtctgtctc ttagggttac 240
atgctcccgg                                                        250

<210> 54
<211> 664
<212> DNA
<213> homo sapiens

<400> 54
acttatggaa cacctactca gtgccaggta ttgttgtaga tgccaggagt acagcaggga 60
ataaacaac atccctgtcc tcgacacaaa cacacaagta aatagagaag gtcagagata 120
aatgctgtgc aggaaaacaa agcaaagtga gggatggaga gtgcggaagg ttggggcact 180
tttgtttcag atgagtgtca gggaagcccc cttggaggag gcactgtaag ggcacagaat 240
cgaatgaaag gagtatgtga aggtgcttaa attgtttctg tttggtttgg tgtggtgtga 300
tgtggtgtgg tgtggtgtgg tgtggtgtgg tgtggtgtgg tgtggtgtgg tgtggtgtgg 360
tgtgatgtga tgtggtgtgc ggtgcggtgc ggtgcggtgc ggtgcggtgt ggtgtggtat 420
gggttgaggc tggccttagg agcctgttgg ccttccaggc cagtcctgaa gcccagccca 480
gagcaccaga ctctgcagtc agtcagtgga gggcccacat ctcagccaat gcatggcttt 540
gggtggtgac ttcatctccc ctagtgttcc tttccccctc tgcaaaatgg gaatggggat 600
ggctcagaac tcccagcggg agttaggagg aataatgtat aggaagtatg agcagagtgc 660
ctgg                                                              664

<210> 55
<211> 120
<212> DNA
<213> homo sapiens
```

<400> 55
tgatgtgctc gttcccatag ccccgctgtg tgtgtgtgcg cgtgtgtgtg tgtgtgtgtg 60
tgtgtgtgtg tgtgtgtgtt tggtggggtg ggaggggagg cagaagagga agagagggca 120

<210> 56
<211> 139
<212> DNA
<213> homo sapiens

<400> 56
tggtgatcag ctcagtgtcc ttggaaaaga gcagaaagtg gtatcacgaa catatcttct 60
cctttgcttc cttctcctca ctcttcatca tcatcatcat catcatcatc aaatatggat 120
ctgtgaggct acctctggg 139

<210> 57
<211> 340
<212> DNA
<213> homo sapiens

<400> 57
ggaggagaga ccagcattca cattcagtta ttgttgtttt aaatccatta cgcacataca 60
taggagaaaa tttcagcaac agtcaccctc tgaacccagt tcctcagttc tctccagagg 120
caactaaaat gctcaattat tagtgtatcc ttttggaaat attttatgta tatgacagtg 180
tgtgtgtgtg tgtgtgtgtg tgtgtgtgtg tgttcctttc caatattaaa ataatattaa 240
cattggtaat agtggtacta aacaacttag ggtgtttttt ttttcattta atagtatatt 300
tttagtatct ttccaggaaa agatacatgg atgtgccaca 340

<210> 58
<211> 362
<212> DNA
<213> homo sapiens

<220>
<221> misc_feature
<222> 49, 53, 57, 259, 322
<223> n = A,T,C or G

<400> 58
tcaataaatg attctgggga tgtgtctgtc tgtccatctg tctctctcna ganacanata 60
cacacacaca cacacacaca cacacacaca cacatcctgt tagttctgtt tacctggaga 120
accttgacta acatacccat taaaaccaaa atatgtcctt cagggtgtta atgtttggtt 180
gaagaaacac agaagtttaa caattgtatc aggctgggca cggcctataa tcccagcatt 240
ttgggaggcc acaatgagng gatcacttga gcccaggagt tctagaccag cctatgcaac 300
atagtgagac aaaaaaatga anaaaattag gggtgtggtg gagcgcacct gtagtcctag 360
ct 362

<210> 59
<211> 187

<212> DNA
<213> homo sapiens

<400> 59
gagttctatg gaacagcatt tattgaataa taacatttca ggaaaaaata taagctttac 60
tgtatattaa aatacatata tacgtttata tattatatat tatattatat tatatattat 120
atatattata tatattataa tatttatata ttatatagat ataaatcaac tacaagatcc 180
agttcaa   187

<210> 60
<211> 219
<212> DNA
<213> homo sapiens

<400> 60
ttgcctaaga tctaggtgtt caaaagaatt tctccaatcc acttcagcct gttattatgt 60
atgtattctg ttttaaatga gaaacaagag tcattttctc cagaataata gaaccatagt 120
gacacttgaa gtaagtccag tggtcctgat atgataataa taataataat aattattatt 180
attattatta ttattttgag acgaggtctg tatctgttg   219

<210> 61
<211> 302
<212> DNA
<213> homo sapiens

<400> 61
atggagagac acggagttgc ttgagggtac agtgcctgta gatactcaat aaatatttgt 60
ttaattaaga aaatttctgt tatttgtgtg ctcatacata ccatttcagt ctggtgagta 120
ttgttctttc ctagagttta cttttaatct taagtatttt ccaggtcctt tgttgacttc 180
tgtttaaacc acagtacaca cacacacaca cacacacaca acttttgtgt actataatag 240
cttccccaaa attataattt agtcattgtg atgcagatct tcttccaagg cctctacttt 300
gg   302

<210> 62
<211> 368
<212> DNA
<213> homo sapiens

<400> 62
aaacaaacaa acagaaacac caaaatggat tccagcatct tataagtgct ttctcttatg 60
atcgagagta agacaagcat ggctactccc ttctcttcta ttaaatattg tactaggggt 120
tctattgaga taaataggca aaaaacaaaa caaacaaaa caaaaaggca tccagattta 180
aaaaaaaaag gaatctagga ataaagggat tacatctcta cttgcagatg acatgatctt 240
atgtatagga aatcctaagg atccactgaa aaactgttag aactaataac atcagtaagt 300
ttgcaggatt ataagattaa tacaaaaact cgactgaatt tctgtgcact tgcaataaac 360
aacccaaa   368

<210> 63
<211> 247
<212> DNA

<213> homo sapiens

<400> 63
tctgcccaca cactttatgc tttaaaacaa aaggccatgt tgaacttgta gaaccaaatg 60
attgctaatt acttggggcg atactagtga tatattatct tacatacaca cacacaaaac 120
acacacacac acacacacac acacacacac ggcttgagtc cagcatggcc tactgatttt 180
aaaataggaa atgacagtgt aaatgccagg ataaaggaca aagtgctctg acctgttgcc 240
aaacctt 247

<210> 64
<211> 270
<212> DNA
<213> homo sapiens

<400> 64
gggtttagga cccacgtatc ttttgtttgt ttgttgttgt tgttgttgtt ttggagttca 60
acatgtttat ggtgtgtagc catggttgaa agcttttatt ttataagata gacaaagcag 120
gaattattat tctcatttta caggagaaaa acagaagggc tatgtggttt gttaaaaggc 180
cacacagaca gtaaagaaca cagcctttac atggtcagcc tcacattcta gtactcattt 240
tattacactg ctcttcttct ctgttgcctg 270

<210> 65
<211> 261
<212> DNA
<213> homo sapiens

<400> 65
ctggcctctt tgcccatttt ctaattggat tatatgtggg gttttgttgt tgttgttgtt 60
gttgttgttg ttgttgtttt gctgttgtga cgttagagtt ccttgtatat tctagatatt 120
aatcccttgc caattaatag tttgccagta ttttctccca tcctgtaggt tgttcactct 180
gatgattgtt cctttgctg tgcagaaggt atttaatttg atataatccc atttatttac 240
ttttgtttct gttgcctgtg a 261

<210> 66
<211> 304
<212> DNA
<213> homo sapiens

<400> 66
ccatccaggg tctaactcca gcatttgtat aaacttggac aatacttttg ctacagggtt 60
gtcattgaaa gtattgcctc attatatttc ttagtggtcc ctgtatgaag ccatataaga 120
gaaacttctt aatttagcac taggaaatgc ttctgttgac ttgagatgtg tgtgtgtgtg 180
tgtgtgtgtg tgtgtgtgtc tgtgtgtgtg tgtgtgtgtc tgtgtgtgtg tgtattcccc 240
taattgataa actataaaat aatctttctc ttttcacttt ggccatctgg aaatttgcca 300
ccaa 304

<210> 67
<211> 371
<212> DNA
<213> homo sapiens

<400> 67
tggcttccca atcctagaaa aggaagaaag ctgcatgttg ttgttgttgt tgttgttgtt 60
gttgttgttg ttgttgttgt tagatggagt tttctgtcgc ccaggctgga gtgcagtcac 120
atgatctcag ctcactgcag cctctgcctc cctggttcaa gcaattctcc agtctcagcc 180
tcccaagtag ctgggattac aggtgcgcac caccactcca ggctaatttt ttgtattttt 240
agtagagacg gggtttcacg atgttggcca ggctggtctt gaactcctga cctcaggtga 300
cccacctgcc tcggcctccc aaagtgctgg gattacaggc gtgagccacc gcacctggct 360
gaaagctgca t 371

<210> 68
<211> 258
<212> DNA
<213> homo sapiens

<400> 68
gccttcgcag attgtacctc ttcctttcac ccttctcgct ggcctgtgct tctctctcca 60
tcgtggtctc ccacgccttg gtttctcctc catccccatc cccatctttc gtgagcccct 120
ccaactctct ccccgtgttt tgtacggtct cctgcgttca cttgatttcc tctcacccac 180
ccccgcccca aacacacagg cacacacaca cacacacaca cgcgcacaca cacgggcctc 240
tcgcactctc cttctcct 258

<210> 69
<211> 226
<212> DNA
<213> homo sapiens

<400> 69
tgactcttgg cctctgtgtg tctctgggtt tctttgtctc cctcctctcc acggtcctct 60
tgtccttttg tcttcccttt cttgtttctt gaatctcttt gcctttatgt atctgtcttt 120
ctctctctct ctctctctct ctctctctct ctctctcttc tttcctttct ccctgactcc 180
ctctctccct cttccaggcc cagctcccag tagctcctaa ggcaaa 226

<210> 70
<211> 215
<212> DNA
<213> homo sapiens

<400> 70
catttgggat aaatgttgtc tttagttttc aactactttt tctttggctt attctctctc 60
tctccctccc tccctctctc tctctctctc tctctctgtg tgtgtgtgtg tgtgtgtgtg 120
tgtattcatg ttttcttaat ctatctgaat tgttgtgtcg gttttccatg cgaatttcca 180
gttacctcca cagtattcgt ttcagaatgc ttcct 215

<210> 71
<211> 370
<212> DNA
<213> homo sapiens

<400> 71

```
ttgcagtttc atgaaccaag tattactgcc tcaacaatta aaaacaacag acaaattatt 60
taaaaaacca tgaggcgagt ggtggctggt ggctggtggc agggcggggg cagggtggcc 120
tctgtgtctc atgctttctg gttggtctgt ggtctttgca ctgagagcta gggccttgca 180
cattcattca ttcattcatt cattcattca ttctttgaat tcaacattac tatgcaccag 240
gcgctgagaa ggcagcctta gacagatgga aatccttgct ttccgggaga ttccattcta 300
atgggtcatt gattcagtgg cctcttcagt catttgttca tatgcattta ctcgtacctc 360
tcatgtgcca                                                         370
```

<210> 72
<211> 339
<212> DNA
<213> homo sapiens

<400> 72
```
aactgaacct gggctgtgtc agtctaagac ttatgcttgg aacctgtaag aagaacaagt 60
gtgcgtgcat gcatgtgtgt gtgtgtgtgt gtgtgtgttt ggagggatag tgaagttttt 120
tcctacagct acaaatagaa catgctttcc tatacaattg tactaatcaa tattatttcc 180
ttacattatc tccagccatt tccctataat tagacattca gattatttca aggttgttat 240
tcctataaac agtgatgtga tgaatttttt aaagttggtt cctcacatcc gtctgttctt 300
gtaaatgtat ccatcataga actggaccac aaaggttgg                         339
```

<210> 73
<211> 150
<212> DNA
<213> homo sapiens

<400> 73
```
gggagttctc tttcttcaag tgcttagggg agaaaataag tgagaaaaag agagatagag 60
gaaggaagga aggaaggaag gaaggaagga aggaaggaag gaaggaagaa gaagaaaagg 120
aaacgaaaag gaaaggaaag gaagaaagga                                   150
```

<210> 74
<211> 331
<212> DNA
<213> homo sapiens

<400> 74
```
tccatgttat tctctacctg ttggttcctt cctcattgaa aattggtgta tagatggtag 60
atagatagat gatagataga taggtagata gatagataga tagatagata gatagataga 120
tagatagata gatagatttt tatttttggt ctatctcctt tactaaacag taagctccat 180
gaaaatatgg atcatcactg tcttattcac cattatattc tcagcatatg gtattgtcct 240
ggtatagaat agattctcaa taaatgcttg ctaaatgaat gcattcatga gtgagtgaat 300
gaatgaatat gcgagtggat gagtgtgtgg a                                 331
```

<210> 75
<211> 370
<212> DNA
<213> homo sapiens

<400> 75

```
tgcttgaggg caggatctat atgtaattcc tttctggaaa accagggatt gaaacaggat 60
ctggcatgca atgggctgga tgggtgaatg gagaaataga tgaatgacag atggatggac 120
aaacagatgg aaggaaggat ggatggatag atggatggat ggatggttgg atggatggat 180
ggatggatgg atggatggat ggatggatgg atggatggac agatggattg gttggtagat 240
gtgtggatag atggatgggt gaacaagcga gtagatggat gagtaaatgg ctaaatctgg 300
tgctttctt ccagaatcct ggattctgaa gggaggcttt gcagcccttc ctcgtggatc 360
acttgctctg                                                        370
```

<210> 76
<211> 251
<212> DNA
<213> homo sapiens

<400> 76
```
ggctgaatta ctgggcatgt ttctgagaag aaagaacttc tattttaatt atatatctac 60
agaaaccaaa ttgcctgctt acagttttac atgtctgatg attggaagtt tttgtttgtt 120
tgtttgtttg tttgtttgtt tccacagact agcctctgac tccatatatt tcaaactttg 180
ttcctcttcc actacccaca tatttctgat gtgagacatt ctagaaaaat ttcatattgc 240
aagacggctt c                                                      251
```

<210> 77
<211> 363
<212> DNA
<213> homo sapiens

<400> 77
```
ttggcaggat tcagttcctc atgggcacca gacggagagt ctcagcaaat cactagctgg 60
tgactgcagc caccgcagtt ctttatcacg tggttctctc catagggcag ttcacagtgt 120
ggtaacttgc ttcatcagag caagccagga agaagaccca gagacagaca gagagagaga 180
gagagagaga gagagagagg aggcctctga aagagagaga gaagagagag aggcaaagag 240
agaatgagaa ctccagaagt cactgtcttt tatagcctaa .tcttgaaagt gacattcatc 300
actttcacta cattttcttc cccagcagtg ctcagtggga ggggattata cacggccatg 360
gat                                                               363
```

<210> 78
<211> 203
<212> DNA
<213> homo sapiens

<400> 78
```
gcacatttgc agaggtttga ggtcccatca ttagccatgc ttcttggttc ctgcactatg 60
agtatacgta tgtgggctga tggcctcatt cactggatac acacacacac acacacacac 120
acacacacac acacacacac ctcaccaggg acttgggagt atctaaatgt ttgagaatca 180
tagagcaggg agacatccaa cac                                         203
```

<210> 79
<211> 326
<212> DNA
<213> homo sapiens

```
<400> 79
gggcacatac agctttcctt gcaggaaaaa aacctgctta actttgttta ttatatatta 60
tttgatctgt gcttcatata ttattcatat attatttgat caagttgctt catgtattat 120
ttgatcaagg aatcatgtgt gtctacagca cctattaaaa ttccctggca ctgaaattct 180
gtagaaaacc atttaggaaa agttgatcta actgtataat tattagtaaa acatatacac 240
acacacatac acacacacac acacacacac acacacacca caagcaaaca aaaaaaacc 300
accttaatgg tctcctaacc aaggca                                        326


<210> 80
<211> 266
<212> DNA
<213> homo sapiens


<400> 80
gcatgttcgc cacagagatt caattaattt aaataggtag aggacttggg gcagtgccta 60
ggacaacatt acactcaggg atggtgatga tgatgattat aatgatgatg atgatgttga 120
tgatgatgat gttgataatg atgatgatga tgatgatgat gatgatcatg atgataatgg 180
aaaagaagat agaggaggta gaagaggaga caatcatgat gttggaggta gactccaatc 240
ttcagaatca gaagctcagg gttgga                                        266


<210> 81
<211> 224
<212> DNA
<213> homo sapiens


<220>
<221> misc_feature
<222> 18, 197
<223> n = A,T,C or G


<400> 81
agcttaatct attatttnag aggcagaaag ttaacttgct tatcctgaaa agaagtgcaa 60
atatatccca aaagtgccat tctttcattc atccactcaa acagatacac acacacacac 120
atacacacac acacacacac acacccttt cacccttgg tagtgtacag tctctgagtt 180
gtaaaaaata gtcattnctt tctgcttgaa agactgtatt agct                    224


<210> 82
<211> 328
<212> DNA
<213> homo sapiens


<400> 82
ccagcatgat cctatgaatc cttataaaag ggagatggga aaatttcaca cacacacaca 60
cacacacaca cacacacaca cacacacaca cagatagaga cagagagaag aggataaggc 120
aatgtaacca tggaggcaga gatgggagtg ctgtagccac aagctaagga atgctggcag 180
ccacagatgc tggaagagtt gaagaatggg ttcccctga gggagcacag ccagatgcat 240
gctttgagag ttcagcccag tgctactgac tttagactta tggtttccag aactacaaaa 300
aattaatttc tgtcgtttca aaccatcc                                      328


<210> 83
```

```
<211> 257
<212> DNA
<213> homo sapiens

<400> 83
caaacgtcgc tgacctgagt ctgacctggg ctgcctcgtg ttaccaacat gaaaagggag 60
tgagaaaatc tgaggccaat taacttctct ccctctctct ctcttttct ccccttgccc 120
acctctctct ctctctctct ctctctctct ctctctctct ctctctcttt tttccccctc 180
ctcttcttgg agacatgatg aaatttcctg aaacaaaaac tcgcagcccg ttcaataaaa 240
tgctttcgcc tttggtg                                                257
```

```
<210> 84
<211> 223
<212> DNA
<213> homo sapiens

<400> 84
acagttgcca tttgctcatt taaaatgtag tgaggtgttt taaagagggt ttgttcaatt 60
taccaaaaag ggaaaaaaag ggaaaagaag aaacttattg ttgaacgaac acacacacac 120
acacacacac acaaagagcc tggcttaatt tagggataaa gcaaagaagt caataccccc 180
acatcaacta ttgaaaccta agctattgct ggagttgaca gcg                 223
```

```
<210> 85
<211> 364
<212> DNA
<213> homo sapiens

<220>
<221> misc_feature
<222> 7, 61, 86, 339
<223> n = A,T,C or G

<400> 85
agctctncct agcattgttt tcctttgctt catttcctct taaatgtgtt ggatgcactt 60
ngttcctgct aactaatcta tctttncagt ttcaaatcaa atgaacccag agaatttatt 120
tttacattat tatcttcaga tttagatttg ttttgctttt aatcctgtct tcatgaaggg 180
gaaagccatg tgtaccagca tggttgataa accaccaaat cgtgaaactt tgcttgctcc 240
ccaaacccccc aaccacacac acatacacac acacacacac acatacacac acacacacac 300
acacacacac acacacacac acaacctggg aaattgggna gaaaactggc aaaccttaaa 360
ctag                                                            364
```

```
<210> 86
<211> 619
<212> DNA
<213> homo sapiens

<400> 86
cctgacagcc ctcacggtca ttctctgtgc taggaacggt gttgtcttac ctcaccagga 60
aggcagtctg agggagaaga gagggcttta cagccagaca cacctgggtg gggcttgggt 120
caagtgtctt catctctctg agtctatctc cccaactttt aaaaacagac agtgtatgta 180
```

```
ctacatagga ggggctctca taactgccat cccttccact ttcctaactt tgccccyata 240
caccctcacc cccatcaagc ccttgcccag gacagatttg gacagctctc ctctactcag 300
ataaaaaaaa aaaaaacaaa aaaaaaacga aaaaacggta tccagatgca ccaggtgtct 360
ccaagttgaa gctttaaaaa cctgtgactg aaagaaaaaa aaaaagttct cattccttat 420
cattgcaaag agcccatagg atctgattag tttatcttct caattccaaa caaagccaga 480
tcaataggtt tgttttaaag acactctcat ttggcttcac atggctaagt acttaaaatt 540
aatcataatc agttattcca tgggtttta atttccagca gaggcacaca gctttgaaac 600
catccatctt aatggtgag                                               619
```

<210> 87
<211> 1095
<212> DNA
<213> homo sapiens

<400> 87
```
cccttttacc caaaatctaa tcagaccaat cctaccttcc aaatatcact tttcatttcc 60
ttttctcttc ccactgctgt caccttgtgc atgggctatt acagctgtcc tatctgcatc 120
ccaccatcct ctgcactgca cgtggagtaa cctttctgaa acctccattg gagcttgact 180
tgactccact taacatctga agatctttcc gagggttccc cactacccag actctcatca 240
ttgcatgtgt tcctctgtgg tctggtctgg tgcctgcctg cttctctgtt ctcatggtgt 300
acacactcac cacactccat ttgcttcata ttcactctgt ctgtctgtct gtctgtccac 360
ctccctacct cccctctctc cctcccctac ttcctctcct cataccaaac ctcttggtga 420
tccccagtgg gtcatgatgt ataaacattt gcacataata ttgcctctac ctgtcataac 480
cttgtgataa ccttaccgca catagagtgt gctaagtgtc cagtgctccc agagacccct 540
gggcatgcct ctaggggacc actcctatag gtctgagttc cctcrgcacc cagggtaggg 600
ccctctctct ctagtgaatt gcagagggcc tgcacatggg aagtgctcac agcctgcctg 660
cctccctgcc tgtggaacaa atgggattga actctgaccc taaaaggact gtgacggtga 720
tctcctggga catgcattct agggccctcc aaggcagttc ctcttcctca tatttcacct 780
gtcgtgtgca tgtcactcct ctctcgactg tgaaatggga gcacctggaa ggtggtaccc 840
agcagcaatg gacggtctct ggagtcagac tggcactcca gacccctctc aggcactgag 900
gagttgtgtg ccccccttaat atgtgccaaa ctcactttcc tcaactgtaa attgggggtg 960
gtcattgtta tcacctctaa ggattgttgc aaggattaac tgagataatt tgcataaagc 1020
acatagtcta catctttgct cttcaataaa gggcagccat tgctttgtta tttcctagct 1080
gtaccttcta cttga                                                   1095
```

<210> 88
<211> 644
<212> DNA
<213> homo sapiens

<400> 88
```
tcatctcagt tcacccagct ggtaagcgca caatgggatt tgtgggagcc tacacagccc 60
tgaagctgac caatggtcct ctgggacatg tatgaccctg agttaagagt agacgcagtt 120
ctaggtgata gttcaagtcc ccctgagctc tgaagtacat aattcacaga ttttttttt 180
ttcccatcac taataaccaa acatttggag aaataacccc tggcattctt aaggcttctg 240
tgcatcagag gtggtcacaa ggtttacaat ttaaagaata tttggggatt aaactcagaa 300
aaccaagcca ccacagtgcc acacttctgt ctttttgtggg tgtcttaaaa atgaatgctt 360
tcttatcgta gtttctgacc agaggcagct tcctttaaag gctaaaggaa gcagcccgtc 420
tcagctccag caggtcagta atgtgacgag ataaagggca gttccttaat gaaaaccact 480
ctccctcctg ccagyaaagg agttttctta gtgcatttca agtcctctaa cacctcttcc 540
```

```
cagatcaatg gcttttcata aatgcaccag gagatctttg aaccactaat gcttcagggg 600
ctgtttaggt ttggagtcaa actgtttaat ataactctcc tcca                  644
```

<210> 89
<211> 840
<212> DNA
<213> homo sapiens

<400> 89
```
aggtcagcag gacagccaag ccctgactca gcttcccagc cacagtgtga agcgtatgag 60
tgtgaaagtc tctccttcag agaaaagacc agtggtccaa agaccctgcc cattcccgta 120
gctgtgcttc cccaaagaat ctctgaggag gttgacataa tggtgaagtg ctcagactct 180
ggagtcaggc tgcctggagt caaatcctgg ttcttaccac ctttatgacc ttaagcaaat 240
tgcatgcctc ctccttagcc tcagttaacc catatgttaa gtggaaataa tataatcccc 300
ctttatgatg ttgttttgaa gagtagtaat tattattgct gcttttattc catctctgag 360
aattaactag gcccaggtta tcacatctta gagactaaat cttcccttcc tagacaaata 420
tgtgcccccm aaaaaagtca tatttatagt ttcctggctc tgaaatgacc ctccctaact 480
agtaaagata tttaacttca tcactctttc tgttatttct ttgagtgggg ctgacctctt 540
ccggcatatg gcttctaatg ggctaggtat aaagtaggcc agagaaaaag agggtgtaac 600
ttccctgccc tgtcccttcc tcttgtcccc accaagacat ggaaggacg aaaagaactg 660
aggagtccca gctccgctat taaccgctgc ctgcctaggg taggctgaaa aatggctctt 720
ctaaaaatgc ctacatccta aactctaatg tatgtgaatg tgtactccac atagcaaaaa 780
ggattacaaa tcaagaattc aggttcttca agtggataga ttatcctgga ttatttgagg 840
```

<210> 90
<211> 401
<212> DNA
<213> homo sapiens

<400> 90
```
gggtgcagtg tgtgcaacaa ataacccagc ctcttggctc gtggcctgga ggtgcaagac 60
cacccacaga gcctgccctg gaggcgagct gctccgcctg gtaaccattt cagcaacggc 120
catcacttga agaacaatgt gaatgcttgt agcagcctgg ggcccgagac caaacagccg 180
ccatacactc tgaccgcaga grcagcagcc tgggtggggg ggattgttat catttaatga 240
gatgcagatc aagacagcct gggtctttaa tgcagtgtgc ctcttctctt cttgtttaga 300
gatttgagtg aaaaccagat ccaggggatc ccgaggaagg cgttccgcgg catcaccgat 360
gtgaagaacc tgtaagtgat gttttccttg cttcactacg t                     401
```

<210> 91
<211> 613
<212> DNA
<213> homo sapiens

<400> 91
```
aatcagtaaa catatctata tgtattctag ggtctggtgg gcaagtgtac aaaatgagca 60
aaatgataga ttcacctcct tttgctcatt tgagatgttg ttttaatgta gaattacagt 120
agccctcaaa tgatgagaag cagtgacaat tcattagcag attgtggctt agatcaagtg 180
tttgatttct ctgaggaagt gtaaccagta ctcagttata tgaagtatat gcgttcttw 240
tgaagataat ttttttcctt ttgtcagtta aaataacctt gagctttatt tttttcaaag 300
```

```
acccccagcta gcagcagaca aatgcttcta taatttgttc ttcaataatg attttttaga 360
atgttaaact gtcataaaaa aaaacaacct tcaaaagcgc ttctagattt cctattctct 420
gcttaaagga caattggata atagggagga aagaaatagc atgtcaaggc tgcttcacat 480
tttgtcttct gccttggttc atgaaagcag ggattccccc ggttttcttt ttacagttac 540
aatattctat ttctcctccg tctagaaaaa gaatacttca gatatgtaca ttgatgaaca 600
tatatatatt tca                                                    613
```

<210> 92
<211> 619
<212> DNA
<213> homo sapiens

<400> 92
```
cctgacagcc ctcacggtca ttctctgtgc taggaacggt gttgtcttac ctcaccagga 60
aggcagtctg agggagaaga gagggcttta cagccagaca cacctgggtg gggcttgggt 120
caagtgtctt catctctctg agtctatctc cccaactttt aaaaacagac agtgtatgta 180
ctacatagga ggggctctca taactgccat cccttccact ttcctaactt tgccccyata 240
caccctcacc cccatcaagc ccttgcccag gacagatttg gacagctctc ctctactcag 300
ataaaaaaaa aaaaaacaaa aaaaaaacga aaaaacggta tccagatgca ccaggtgtct 360
ccaagttgaa gctttaaaaa cctgtgactg aaagaaaaaa aaaagttct cattccttat 420
cattgcaaag agcccatagg atctgattag tttatcttct caattccaaa caaagccaga 480
tcaataggtt tgttttaaag acactctcat ttggcttcac atggctaagt acttaaaatt 540
aatcataatc agttattcca tgggttttta atttccagca gaggcacaca gctttgaaac 600
catccatctt aatggtgag                                              619
```

<210> 93
<211> 402
<212> DNA
<213> homo sapiens

<400> 93
```
gagggaagga gggctccacc tgaataaaaa agtcagggca tgctcttctc gtctggagac 60
ctgtccactt gtcttcagct gctccactgg ctgggccatg actgttgact catggtcttg 120
cagtcacaac catccctccc ccgacctact acaagcatct tggtgcctcc cctgctgctg 180
cctggctgac catctccctt stctatctcc acagtaccct caacaacaac aacatcagtc 240
gcatcctggt caccagcttc aaccacatgc cgaagatccg aactctgtga gtaagaagtc 300
tgtgcatctc tcccattttc tccctacctc acgcccaaag tgcagcactc tacgctgctt 360
gtcaaaccta ccatgctatg actaggcaga tggttccgac at                    402
```

<210> 94
<211> 402
<212> DNA
<213> homo sapiens

<400> 94
```
gaagcactca gtgcatagga gggtttcagg aagcgatact cttactcaag gtgggtaggc 60
aagtcctgag aggacagtag agggaaggag ggctccacct gaataaaaaa gtcagggcat 120
gctcttctcg tctggagacc tgtccacttg tcttcagctg ctccactggc tgggccatga 180
ctgttgactc atggtcttgc rgtcacaacc atccctcccc cgacctacta caagcatctt 240
ggtgcctccc ctgctgctgc ctggctgacc atctcccttg tctatctcca cagtaccctc 300
```

```
aacaacaaca acatcagtcg catcctggtc accagcttca accacatgcc gaagatccga 360
actctgtgag taagaagtct gtgcatctct cccattttct cc                      402
```

<210> 95
<211> 403
<212> DNA
<213> homo sapiens

```
<400> 95
gctattaaaa aatgagcttt gctcagaacc ccggaggcat cctttggatg tgacctggca 60
atgaaagggt tggggctcca atgtttttgg tagtgcagag ggaattgctt cccctgggct 120
cctagggatt ttcacactgg agaaaggggc aacaggggtt ttggtcactc tgtctggcca 180
gtgacagcct ccacacttca cyctgtgacc atgccttctc tctgtcccgc cctctcccag 240
gcgcctccac tccaaccacc tgtactgcga ctgccacctg gcctggctct cggattggct 300
gcgacagcga cggacagttg gccagttcac actctgcatg gctcctgtgc atttgagggg 360
cttcaacgtg gcggatgtgc agaagaagga gtacgtgtgc cca                      403
```

<210> 96
<211> 402
<212> DNA
<213> homo sapiens

```
<400> 96
cttaggatgc tggttaagga cacagaagcc caggcagctc ctgacactga cataagttga 60
ccgttgtgtc ttggctccac agccccccac tcggagcccc catcctgcaa tgccaactcc 120
atctcctgcc cttcgccctg cacgtgcagc aataacatcg tggactgtcg aggaaagggc 180
ttgatggaga ttcctgccaa yttgccggag ggcatcgtcg aaatgtaagt gcacctgtct 240
gacacccccc acaactgtcg ccggagaatt cagctccctg tcccagccca tcacccacta 300
ggccatcagc gtgtggggct gctggagctg accattaaaa acactcagga atctctttgc 360
tgtccttcca cactttccca gctatgatag cttggtggtc aa                      402
```

<210> 97
<211> 402
<212> DNA
<213> homo sapiens

```
<400> 97
accgttgtgt cttggctcca cagcccccca ctcggagccc ccatcctgca atgccaactc 60
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cttgatggag attcctgcca acttgccgga gggcatcgtc gaaatgtaag tgcacctgtc 180
tgacaccccc aacaactgtc rccggagaat tcagctccct gtcccagccc atcacccact 240
aggccatcag cgtgtggggc tgctggagct gaccattaaa aacactcagg aatctctttg 300
ctgtccttcc acactttccc agctatgata gcttggtggt caagagcata gactcgagat 360
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<210> 98
<211> 402
<212> DNA
<213> homo sapiens

<400> 98
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gcagctgctg tggctaggga caggtcatgc atggaggtca gtgggcagct ggagccatct 180
cccatctgcc ttccagctca rtgccctgca ttgtgcctcc atcacaacaa aatagcagag 240
ggggccttga gctgatagga gacttgagat gcttgctctg tgcccaaatg gctgtgtcca 300
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agaattaaga cgcagtttgc caaatgttct cacttataca tg 402

<210> 99
<211> 402
<212> DNA
<213> homo sapiens

<400> 99
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aaatgttctc acttatacat ggaatctaaa caaagccaaa ctcttagaag cagaaagtag 180
aatggtgatg ttcagaggcc rgtggggtga gggtggggta gagatgaaga tgacacagat 240
gttcgtcaaa gggtgcaaaa tttcaggtag acaggagaag taagttcaag agatccattg 300
tgttatacaa cacggtgaat gtagttaaca acaatgtatc gtatacttga aaatagctca 360
gagagtagat tttaagtgtt cttaccacaa ataaatgata ag 402

<210> 100
<211> 402
<212> DNA
<213> homo sapiens

<400> 100
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ataataaaga aaaagacaaa gtgaccaagg tcaattccca gctaaactgt ctatcacttc 180
tccaattccc actctccagc rcctccaaac cgtggggcat ctcacctcat actgtaggga 240
gagatgggtc cagaagtcta gttgtggact gaaaaccagt ttgccctccc agagctaaag 300
cagagggttt ccgtgctggc cacatagctt cctcttgcaa ctagaggtct cagcaccttg 360
aagggacaat tcataatcag gggaaaaaaa gacaacacag gc 402

<210> 101
<211> 402
<212> DNA
<213> homo sapiens

<400> 101
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gggatgcccg taattgagca gcctacaggg cctctgggaa ggagccaggg tcgaggagat 180
tcctttgcac ctgcaaagcc wggttagctg ccccagaccc cgggcccagc attaatagaa 240
tcctcctggc ccacagcatc cctcttgctc tcattatcca aagcctggga cattcttatg 300
ccctggactt gctcccagat gaggaacaca ctgccagcca gtgacaagcc cacatctcca 360
aggcgtccct gagaatccca ggatgtgctt acatcacaca gc 402

<210> 102
<211> 402
<212> DNA
<213> homo sapiens

<400> 102
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tcgctgtaag tggggcccga gttggggcct gaggtgaggg gagggggggc gctggaggga 180
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atttctacaa cccaaatgca ttattttttat tgattaagcg cctggcagct ttcccagtta 360
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<210> 103
<211> 402
<212> DNA
<213> homo sapiens

<400> 103
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cctcacatcc acagtgattg ytgtcttctc cttctctctt tcagggtcct gtatgggaac 240
aagatcaccg agattgtcaa gggactgttt gatgggctgg tgtccctaca gctgctgtga 300
gtaggaactt tgtcactgtt ggtgtctttg gtactgtcgg aaggctccca cctgaaaacg 360
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<210> 104
<211> 649
<212> DNA
<213> homo sapiens

<400> 104
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ttcttcctgt tggggattat gtattgggct aggttgccca ggaatggagc aggatagagc 180
ccatttctac tcacctccca gacaacctgc ccttccagcc cctggctgct cttggctgcc 240
tctgtctcgc tgatgagaag ggattaggca ggccgtggaa ggggttgtcc tgagatctca 300
tacccagaac tggccgaggt gatggcttcc tgcaggactg ggttctggtg gcctcacatc 360
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gctctggaga gttctttga ctttctgcag acaaaagaga aaaaaatgtt tgagctgtcc 600
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<210> 105
<211> 815
<212> DNA

<213> homo sapiens

<400> 105
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gtctccagca gaagaagcag actgacttga cgatgcgttc ttgagggaag ggttcttccc 240
tctcttgtgt acctggaaag ccattgrgta gacttaaatt ctggaatcat tccatgctag 300
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tcacttgatc tggtaaccaa ataatagttc tccctctctg gtctctagga atctcagctt 480
tcatctgttt cccttaggaa aacccagtgg cttacagccc attcctagca ccctcctatg 540
tctctggggt agaaagaggt cttgtttttc agacaggccg cccaatggtg ttgctgcatg 600
cctggttact cttgcatcgg gaatcaccat gacaacccac agccattgac aagcagtgca 660
gtcaccaaca ggagagaagg gaagagccac tgttgcccct agttgggact tggaggactc 720
ctcctgtttc cccttgagtg tttagcaaga cgtggcctac agcacccatt ttcaagcaca 780
gagaagattc tgggcagggt cagaattcat ggcta                            815
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<210> 106
<211> 386
<212> DNA
<213> homo sapiens

<400> 106
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gcaagtggtt gaggaagagg cggatcgtca gtgggaaccc taggtgccag aagccatttt 180
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cacaatcaga tactccctga gatccaattc cactttgctt tgggcatgca gctggagctc 360
tggagagctc tgcagatctg ctacta                                      386
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<210> 107
<211> 562
<212> DNA
<213> homo sapiens

<400> 107
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aagaaaaaac aaaaacaaag ttgcccagca tttctctaaa gggcagagtg tgagaggctg 120
ttgcaagcat gcaagacccc agcaatgcca tctgagcagg aggtgatttt tttctccagt 180
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caccagaggc tcttaaatgt ttaggtctca ggactccttt atgcttttca gaagcatcca 420
ggactccaag aacctgtgtt tatgtgggtt atagctattg atattgatca tattactaac 480
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acatgtttat ataaaaagca ca                                          562
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<210> 108

<211> 600
<212> DNA
<213> homo sapiens

<400> 108
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aatactgaac attgtgccca ataggtagtt tttcagccct cagcaccctc ctaccttttg 180
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aatggcctcc agttccatcc acattgctgc aaaagacagg atttcattct tatttatggc 360
tgagtagtat tcmatgtata tagatattcc acattttctt tttttttttt aatttttttt 420
tattttaagt tccaggatag atgtgtgaat gtacaggttt gttatgtagg tatacatgtg 480
ccatggtggt ttgctgcacc tatcaaccca tcatctaggt tttaagccct agatgcatta 540
ggtatttgtc ctaatgctct cccttccctt gcatcccaac ccttgacagg ccatggtgtg 600

<210> 109
<211> 708
<212> DNA
<213> homo sapiens

<400> 109
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cataattaga gtagtgatgt ttggggcaac tcaatatgta agagggagag aaaatgtttg 180
cccgtccatc tgtctgtctt ttggggtgrt gggggtgatg gggtgaacac caccagcctg 240
accagggttt tctctttcct cagcatcatt tgtcccagtc tggcactact actgccatga 300
gttcatcagc ggtacacgta accatacaac acgctagcac ttgcttcttg aaatacgaat 360
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gctgagatca cgccattgca ttccagcctg ggcaatagag ccagaccctg tctcaaaaga 660
aaaaaaaaag agaattaata ggcttttagc atcatcattt tagaatca   708

<210> 110
<211> 402
<212> DNA
<213> homo sapiens

<400> 110
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ggcaatgaca tttccagcgt tcctgaaggc tccttcaacg acctcacatc tctttcccat 180
ctgtaagtag cagtgtttct ycccaatgaa cattcaaaac atgaaagcat gaaagtgtca 240
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ttatacaact atgtatccac actatgcata ttgtcttgtt tcccacctca gaagccttca 360
aaggaatcct caattatgta aacactgtaa atatttaata ag   402

<210> 111
<211> 588
<212> DNA
<213> homo sapiens

<400> 111
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tggcagatgt cctttcctta tgcatacagt atattataca actatgtatc cacactatgc 540
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<210> 112
<211> 624
<212> DNA
<213> homo sapiens

<400> 112
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gaaccagata atcagatggc cagtgatcca ggaagctccc taaaggagst aggatggggt 180
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ccacagtgga gacgactact ccgctggccc catattggat acctccagtc tagccaaagt 360
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gccctgactt cctgttctgc ctcctagggc gctgggaacc aacccactcc actgtgactg 480
cagtcttcgg tggctgtcgg agtgggtgaa ggcggggtac aaggagcctg gcatcgcccg 540
ctgcagtagc cctgagccca tggctgacag gctcctgctc accaccccaa cccaccgctt 600
ccagtgcaaa ggtaggtgac gccc   624

<210> 113
<211> 402
<212> DNA
<213> homo sapiens

<400> 113
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gaagggaggt atggcagtga gcgcactcag gacctgccat cagtactctg gttttgctgc 180
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aagaataacg ggacatgcac ccaggaccct gtggagctgt accgctgtgc ctgcccctac 300
agctacaagg tatgctggag gccctgcccc ccgtgttca tgcctcaggc tcctccttca 360
gccctggccc tagagagggg caccatgccc tgcgtaccct cc   402

<210> 114

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<211> 402
<212> DNA
<213> homo sapiens

<400> 114
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gacatcaaca ttgtggccaa atgcaatgcc tgcctctcca gcccgtgcaa gaataacggg 120
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tcgcacaggt caccactcca aagcagcatt tgccagtaac actgttctct gaactagcgg 360
gagctgccag tcagagaggc ccccatatgg tcttgacaag ga                    402


<210> 115
<211> 402
<212> DNA
<213> homo sapiens

<400> 115
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gcggtgtgag atcaacccag atgactgtga ggacaacgac tgcgaaaaca atgccacctg 180
cgtggacggg atcaacaact wcgtgtgtat ctgtccgcct aactacacag gtaaggatct 240
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tccagggact ctcttcctct ctccctgagg acagagacta agaccccaag actgtgatat 360
gccaagaggg gctccccaaa ggcctgtttg cttctccgtg tc                    402


<210> 116
<211> 541
<212> DNA
<213> homo sapiens

<400> 116
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gcatgggcca ggggagatag aacattgcct ggagatgggg ttggatgaaa tgacctttta 120
ggttcctaag ggtcttcctg ctcaggaccc caaggcctca tgtgtccaaa gtgctttctc 180
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<210> 117
<211> 642
<212> DNA
<213> homo sapiens

<400> 117
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gactccctga atcagaagac acattttaac aagatccctg ggtgttttgt atgctcatta 180
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<210> 118
<211> 402
<212> DNA
<213> homo sapiens

<400> 118
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gcccacctgc cgctgcccac caggcttcgc cggccccaga tgcgagaagc tcatcactgt 360
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<210> 119
<211> 713
<212> DNA
<213> homo sapiens

<400> 119
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cacctgtgct tcagagatcc ttccaggtaa ttctaatgca caagtctagg aaacaccagt 360
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ggtctcccta gagcctgggc cgcctaacat ctgtgtccct ggagccacag gtcctggcca 660
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<210> 120
<211> 725
<212> DNA
<213> homo sapiens

<400> 120

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atgatagcca aatgcaatac ctgaccctag actaaatctt ggactggaag gaaataaatg 180
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gtaacttacc tttaaatggt tcagaaatgt gtgtgtgtat acataaaatg cacagagaaa 420
wccataagca cattggagta atgggagaaa ctgggtaata agcatcttct gtactgtttt 480
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aagag 725
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<210> 121
<211> 404
<212> DNA
<213> homo sapiens

<400> 121

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gttaggcaga ctctgggcct gaaatgcagc ccctgcactg atagttctca agggsttaag 120
tgtaaaaaaa gctaccaaaa ctgctcgttc aatcctaaga ttcccaagac tttacccaga 180
gtccacctgc agagactagc acgggcccag aagagggtgt tgttaatggg tggttcagat 240
gtagggaggc cagggaaagc tctgtgccga gggcagcccc agaagggaca ccacttatcc 300
ctggaggagg accgtgccct gtgccccacc tgctccaggt gcacccagaa cggaactggg 360
tgccctgctt ccaggccagt cccaggctct caactataga aggt 404
```

<210> 122
<211> 402
<212> DNA
<213> homo sapiens

<400> 122

```
accaatgccc tgacttctat gccctctgca gagaatccgt gcctgggaca agtagtccga 60
gaggtgatcc gccgccagaa aggttatgca tcatgtgcca cagcctccaa ggtgcccatc 120
atggaatgtc gtgggggctg tgggccccag tgctgccagc ccacccgcag caagcggcgg 180
aaatacgtct tccagtgcac rgacggctcc tcgtttgtag aagaggtgga gagacactta 240
gagtgcggct gcctcgcgtg ttcctaagcc cctgcccgcc tgcctgccac ctctcggact 300
ccagcttgat ggagttggga cagccatgtg ggaccccctg gtgattcagc atgaaggaaa 360
tgaagctgga gaggaaggta aagaagaaga gaatattaag ta 402
```

<210> 123
<211> 396
<212> DNA
<213> homo sapiens

<400> 123

```
aaaagtacaa gagcagacag cctccaattg ggtcagccca ttcatgggtt tgtccactct 60
```

```
ctttgtttcc tctcactttt ccttttctca ctacccttgc cctttctttc ttcttcatgg 120
tagttccttt tgccttttgt tctctccctc tctgtctttt tttttttttt ttaaatccct 180
ttgccttctc ccctcttttt tttttttttt ttggcatttt cccttcttct ctgagattgt 240
rgggaaatgt tggaggggac ttctgagggt gacagggccg ggtgcctggt gcagaatgca 300
gccacttggg ggaagtaata ccagatgtga cgctggtgcc aacaatcagc ctgaaatgta 360
aacgtgagct gagctccagt aataaacccc ttacag                           396
```

```
<210> 124
<211> 495
<212> DNA
<213> homo sapiens
```

```
<400> 124
tcaaaacaaa ttctattagg tgacccgaag gctgaaaggt tgactgtgtt taactggatt 60
attttacatt ttctcagttt gtgctttatt tatacgcagt aagtttcact caatccacct 120
grcttcttac cttttgtcca gcttgaaaaa tgaaatgagt ttgggctttg gcactatgtg 180
tttcataggc tcctaatctc tctttgtatg ttttgttggc caataatacg taaaactatg 240
ccccaggctt tcttgaagtg catgtaaata tctgcctctc tcttatctcc catggtagta 300
attcatccag gaaacttact tccaacaggt taggtattaa actctccctc acataaatcc 360
acattggatg tctctgatca aattataatt ttcaaagtat tccatcacta tgtccagtta 420
aatcgttcct aatattttcc catgactggg tgactttta aaaaatcttg attgtgctac 480
agaagtgttt tccca                                                  495
```

```
<210> 125
<211> 1612
<212> DNA
<213> homo sapiens
```

```
<400> 125
gtgctcacaa tgtgctgtac agatgtttya ctgccagacc ctactgcccc ctaatttgct 60
ttgtgattcc tggctagtta cagtccctct aggcaatacc acctctttac ctataccaaa 120
gcacaaaaat aaggcacctt ttggggggta gggaaggggt ctccctccat acactgtctc 180
ctacttcttt gtccatcatc aaatccttct catactctgg cttccctgtt cagtctgtgt 240
gactcccatt catcaagtga taaattcaat cattaattca atatgtccgt agtgagtgat 300
atattatact aagaactgtg cctgttgtat ccctagagat atagcaatgc acaaaacaca 360
gtcagttact gcgtctaagt gctcactaaa tgtagtgggt gaaatgaatg aaaagtgagc 420
acaaacttaa caatctgact cggtgtatgg taaaatcgga ggactcacca ggtgctatgg 480
gaacatgaag tgtaggccac aaactcttct taattaggca gagaatgctt cctgtaggat 540
ggaagagctt gctgtggttt ggctcctggg tctgcagttt acaagctgtt tgactttggg 600
caagtcactg tacacctctg tgcatttaaa atgtgataat gatgtaaaaa cttagtacag 660
cacctatcac atagtaaata ctcatataca catattcatt cactccttct ttcagtaaaa 720
atcatctatt gaatacctac cgtgtgtcag gcaatgccct ggaaagtgtg gatggtgcac 780
ccaggtcttg aaatactaat atttccagga aataaactac atcatctcag ttcttttttt 840
tttttttttt cctgcatgga ctacacttgg aagaagtctt tgaagtaaca atagtagaag 900
ttcttttttg ctgtctgttg aagcagcaac tcagaggatt ttcctaggtg tgagggaaag 960
cccgggcagt gaggaagtag caagtgaagc tgtgcccaag ttgcacgttt agggttttca 1020
tctcaccagc agctccagcc tacaggagtc acccctccca accccatcc ctgtctcaaa 1080
ttaaggtctg cttcacatag cagggcacaa caggaatgca ttgtcgtctt ctgttgctgt 1140
cacaagtggt ctgaaaacct ttaagctgtg caatccccca ctgctgctga atacttgaag 1200
ttcttctatg aaaccttagc atgaccccgc atctctggtg ctgcttcatc tcgcagaaac 1260
```

```
ctgtgaacca tggaggagtt cttctcatcc cgtgatggac agaaggctgc ttcttcagag 1320
agagaagtat gagcagtggg aagctaagga agcttacact gttgttgatg atcaaaaaat 1380
gcagcaataa gcactatcct tctccaggcc cagaaacaga gctggggtct acaggccagt 1440
tgaattaaaa aggggaagcc ccactgttag agacattctc tttctacaac cctgcccttt 1500
tctttttttcc ttctttttttt cttgagatat aggtaacata agattcacca tcttaaaata 1560
tatcattcag tgctttttag tctatgcctt ttttgggggga ccatcaccac tg        1612
```

<210> 126
<211> 577
<212> DNA
<213> homo sapiens

<400> 126
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ttgcatgacc agtgaggact agtgatgtgt ggtagtccat cgttgccttg caaggaggga 60
ggcgatgctt ccatggattg tgggtctgaa cttacttcag ggaaattccc tgaggtgggg 120
tttgagatag gtttattcac acgagactgt cagtggtctc agaaggcaac ggtttggacc 180
gaacayggca acctcatcac cttgctggtt gaagcagctc ctgccttttt cccacttcct 240
agcgctgcca gtctaggaac cctgggtctg ggggtttatg attttgtggg aaaaggaaga 300
aatgtgttga attttgcttt attctcttca gaggtccagg gtaaaatgag gagaggggag 360
agttggagat acttctattt attcagtggg agaatttgga agcccaggag ctggagttgc 420
aggtgagggt ggagactgtg attcatgtat tgtagatgtc aggcaagtgc taattaaatt 480
atcgacagtg aacctgaaat catgctggca gtgactcagt tcatggggtg tactgaattg 540
cctaaggtac acctttctga atgaagcgac acagtcc                          577
```

<210> 127
<211> 401
<212> DNA
<213> homo sapiens

<400> 127
```
tgagcggtgc tgactgctgg agagagagca aggtccatat ggcttcctta tggggggacgt 60
ggaagtcacc agccctgctg cagccaacat ggagacatag tcatggctct caccctgcag 120
gagcagctct ctaggctttg gggtagcctg gggccagatt ctgttgccct gagcttcaga 180
aacaggcgaa ggaaagaaag ktggtgtgta ggaaaggcct gcagatatta ccagcttgtc 240
tgtggaagcc acagacatct cagggtgaaa acagagacca aaagtacctc ttgcaaaata 300
gtcattaggc tgtgaacata ggaagacgag aagatatagt ggaaataata gtcaataaca 360
caaccacgaa gcagcaacta ttatttgttg aacgcttaca a                     401
```

<210> 128
<211> 401
<212> DNA
<213> homo sapiens

<400> 128
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taacccccgc tcccctgccg tgtccaagtc caattccaag tgtcttataa ccacagtttg 60
atgctgctgg ctcctccccc agctccacct ttgcctgtga gtatatgtat ctttcaaaag 120
tcatctctta tttccagtaa ctccaaatac aagccgcctt ttagtgacaa gcagatgagc 180
gtgagctgca gtcgcctgga ktgtgcaatg ctgtcaccag agagaactta gtaattacat 240
ttgccaggct caccgtccat gttggctggc aacatgaagg gatcagagaa ttctttgaaa 300
caatatccaa gttcttggtt aaaagagata caggctgggc gcggtggctc acacctgtaa 360
```

```
tcccaacact ttgggaggcc gagacaggtg gatcacttga g                     401
```

<210> 129
<211> 526
<212> DNA
<213> homo sapiens

<400> 129
```
tttccctacg tatgtacttt attgttgttg cttcaagaaa aatacatgca aaaatcctgg 60
catcaacaga tcccctcttt cctccccttc ttaccctagt cacgattact tagactttct 120
tgtagaataa gaaaagatga ctaaaatgtc aaacccmacc atcatcccaa aatgtctggt 180
ccaaaattag aacaaggaga agacaatcaa tcactcccag gttacgaatc atgacccagc 240
cataagcaga gtctctcggt gatgtattat gtttatatct gactctcctt cttgacagtt 300
ggccttctgt gatcagtttc ctgcattgta aaactactcc agatgtgaga acagctcaat 360
agcagagctc tcagcctaat taattcaatc acaggatggt gattaagagg tcagcggtga 420
catttccaga gtgcaccttc tgtcttccca gcagttagct tgtcctaagg ctccaaagcc 480
ctcaggtggc tctggagcca caggagccct tggggggcctt gtccca             526
```

<210> 130
<211> 587
<212> DNA
<213> homo sapiens

<400> 130
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actggtagaa acacaaagta gggctcccag ggagttggct ttgtgatggt ccagctgaga 60
aatagtgaga gctggaacta aggcagtggt gatggttatc tgaataatta ataattactg 120
tctactcact cccgaaaaac tgcagtccct ctaattgaag atatatgttc tctcttagag 180
aaatgagccc cttctcagga cctcataccc acacctttcc ccacagttgg atagacagac 240
gcatccgtcc tgctctggga accatagctt atagtttttt ggctatcctg aattccaagt 300
caccgctccc aagagaaaag cagtgttatc actgagaacc ctgttggatg aaaacatgcc 360
ctcagtagat cactttctga gtagtgcaca cctttcccca cagttggata gataracaca 420
tccatcctgc tctgggaacc atagcttgta gttttttggc tatcctgaat tccgaggcac 480
cgctcccaag agaaaagcag tgttatcact gagaaccctg tggatgaaaa catgccttcc 540
gtagatcact ttctgagtgg tgagatgctg aaacaaacag tggagat             587
```

<210> 131
<211> 621
<212> DNA
<213> homo sapiens

<400> 131
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actggattaa gcagctaacc tgcattattt tgcttaactc ggtcagtgtt tcatacagca 60
gatagtagcg ctattctcat ttgatagacg cagaaagtga gcctcagaga ggttagataa 120
gtggcccagg ctcctccgtg agtaggtaat ggccgggggtt catcccaggt ctgactgaag 180
agtccatatt ctttacatct ttgcctcact gcctcttcat gtaagctctg gacctgccat 240
cataagacaa atgggaagag gtgtcctacc ttcctaaagg cattttccaa agtgatttct 300
gaagatatct gatatgggca actttccaga attagttcag ttgttaaagg tttcacggat 360
gaataaatgg tgtgggggat gggggttgag aagaggtcag aaggagagac agcgtggaga 420
atgatttcca aggctggatc ttttctttat ttgattctag taaattttaa cgaggccctt 480
aataaaatcc cagtgcttag cagagcctcc acatttacaa gttgccagac ctggggcrga 540
```

agaagggaag ttggaatcct ggcgctcagc ttagtcctgc tgacctttca cagttcaggc 600
gagccaggct tgtaagattg a   621

<210> 132
<211> 401
<212> DNA
<213> homo sapiens

<400> 132
gaggggtggt tcatgagaat gaccatatcg aagagtcctt gagaacatag actttggaat 60
tatgcagatc taggttataa tcctggccct accatgtact aggtgtgtaa atttggccat 120
ttaatacctc tctaacttta gcctctgtat tgctaaatgg gaaaaatata gtatgttcca 180
tgtagtgagt agttaggaga raggaaagag atttcatgat aaattaccaa ggaatggggg 240
ctgggcttat aagaaagggt ctggcatcaa tcctgtgaac aaaacactag gattagaccc 300
atcacctcta aagcaggaag aaggaagtta gctgggatat gggtggtggg ccagtgattg 360
cagaggccca tcaagtaaac caagactata atagggaaaa t   401

<210> 133
<211> 644
<212> DNA
<213> homo sapiens

<400> 133
attagcctgt ttctccctca gacctcaacc ttttgttgag gggaagaaac acttgtggta 60
gaaggaaaca taattaatgg aaggatcatg tgcatggact atcatcttat cagtgatgat 120
aataggcctg gttgcctaga tctttccagt cagccgccat gttctgtcag catagctttc 180
ataatgtcct cttcctgtca ttaacaatgt ctttgggttt ctgggttttc tgtcctcaaa 240
ttcatcctga acaccataac taggtcgttc atcctggaga gatatcttgg tactttgcct 300
cccaatgttt aaaggctccc tattgccaat gatgaagtcc taacaytgta tcctgacatc 360
tgcatcccta cacagtatga tctccgctca tgtttatgat cttctgtccc actcttcttc 420
cgtgggaacc agaccattga gctcttgggc cttcagacac ctgtctgctc acctctctgc 480
tcagagttct ttgcccggac tgccctgcag taatgatttt tttgccctgc aataattatt 540
gcaataataa atacaataat aaatgcaaaa ataataaaaa taatccaaac aataattatt 600
gccctgcaat aattatctct ccatatcctc atctctcaca gaga   644

<210> 134
<211> 401
<212> DNA
<213> homo sapiens

<400> 134
gctcttatac agcccactcc agcatagcta aaatttaggt aaacactttc ctcactctga 60
gttttagaag caagtgtttc ttaacaaaat gccttcaact tcacgatatt ttcgaataca 120
gcttttattc caggatttag agacacagac accacagcac caaaacacac cagcagagaa 180
agctccaggt cctcactcag ycctgatgca gacactttat ttccctacgt atgtacttta 240
ttgttgttgc ttcaagaaaa atacatgcaa aaatcctggc atcaacagat cccctctttc 300
ctccccttct taccctagtc acgattactt agactttctt gtagaataag aaaagatgac 360
taaaatgtca aacccaacca tcatcccaaa atgtctggtc c   401

<210> 135

<211> 401
<212> DNA
<213> homo sapiens

<400> 135
caaaatacga gaaaaaatca ccaaagctca tgaccaggag aagatgataa ggctggaggc 60
ttggcccaag gtggaatgaa cgcctgtgct cagtttccaa ggagaaagct gacctgccaa 120
tccatttgtt gacccaaagt tcatcaatgc attcaatggt tctttgactt aagattaaat 180
aggacccctg tgtgaaattg sctgttagtt tttaaagcct tttcattttg acaggtgaaa 240
acctcatcag aattacccta tgcaaagatg tcaggaaaaa tatacaagag gaaattggaa 300
aatgtgattg agctgagcgt acgcttcctc tgccctggag ttctgcgtgg gcttatttat 360
ttcttgcccc tttgctcttc aggcattttc catcactgag g 401

<210> 136
<211> 568
<212> DNA
<213> homo sapiens

<400> 136
gcttgtgatg agggtctgta ccaaaggcat gaaaggggag gagagatgag ggaactcaat 60
ggacatttct gtcaagtgaa cccttcctta gtatctccaa tgcaaagtga gtcattttga 120
tgtggccatc ttgctataat cattccagtg ccaaaattgt atcaacatgc aaaacactct 180
ttaaaaaaat caccagtatt gagtctaacc ctcatcatcc ctgatgcttc accatctccg 240
acatcctcct caatctttgt ctcagttctg agcttcccca tccctgatgc tactgtacat 300
actgcatccc ctccctgtct ccctgtagca tgcaaaggca tcccatcttg ctaggcatca 360
caacagatac tgataattta ctaacttcat ttctaggtca catcaaaatg accctgtgtc 420
aaagcagtgg gccaaatatc acccatcctt atgttgaact tcaaaaaagc aaaagtcctt 480
cagtttttgc agacaaacct gcaaaagaga gagmgctggg gagacagtag taccctgtag 540
aatctttagc caaatgcagc tttgctta 568

<210> 137
<211> 458
<212> DNA
<213> homo sapiens

<400> 137
tacacacacg tgtgtgattt gggtgtgggg tgtcctcgtt aaaagggatg acgttctttt 60
tatagaaaga cacttggtca tttggctcca tagaaaggga agttcttcct ggagtaattc 120
gtgactgaat aattaactct aaggcatgaa accccatgtg tgagaagaag cctgctttcc 180
aaaaaaaatc aagccrgggc ccagggatac ccattgggaa ggcccaggca gcttgcctgg 240
ggtcagagtt tctctttgct ctgggcatcc tttctgacag gttttcccca aatggggaaa 300
aagcacttgt caagtatatt ttaaaaattt tttaaaagaa cattttgaat agcccctgct 360
tcaggctccc tgggggttcc ctacttatat ttttaaaagc tcaggccttg gcaggtctca 420
gcttttcagt tggcatgaaa cggactggaa aatgcact 458

<210> 138
<211> 401
<212> DNA
<213> homo sapiens

<400> 138
ttcttgggcc caagggatt ccatgttcac cattcttcct aggctcttct agctttggac 60
tggatccctc attctgctgg ctctgctgca ggcttgaacc tacctgtttg tatagaccac 120
acactctact ctgttttttc acttaccccc agcattagca gtgccagaga gaggcttggc 180
agggtgatga gataagtgta sgtgaagcag aacaaggcgt tccaagctaa aggccagtcc 240
tctctctgac atctgctccc caggaaagaa gctgctttct ggctcatggt cagtctgctt 300
tcgttcagat aagcccagca agtgggcctg gacctgcctc ttccagctgg cagatgccct 360
ccttgccttc ggggcacacc ttagatgtta tcttttcctt g 401

<210> 139
<211> 576
<212> DNA
<213> homo sapiens

<400> 139
agatacctgt gggctgggag tctggccaac acttgtcaaa agctttaaag agaaatcatt 60
ctgagatcca aacaatggat tcaccaacac actttcagaa cttacartag tggttgccag 120
ttcctgggtt ctgatccttg ctgcttgcca tcttgcaagt catttatatt ttgttcatat 180
gtaaaatggg gtggttagcc tatgtaaccc tatacgctct taaaaaacaa aaagaggtat 240
ttgtgcccct tggccttgac tgttctcaca ggggccacga gagcttctga aggacacgtt 300
ggggctgtga ggaaaggccg ttggctttag gggagggttg ccatttctgc tgaggaggct 360
agctgtaggg aaaatgaggg cctctgaaaa gtgatttggg gagccctcat ggagtaaagg 420
gtgctgctga ctcttgccgc tgcaggctgg tgctctgtgg ctgagtcaga tggaggtcaa 480
agacaccaac gttggaccaa ctttgaaagg tggcaagatg gggctgccta gcaacaccca 540
tgtcatttct gcctgtggtt tgcacgagat ccaccc 576

<210> 140
<211> 401
<212> DNA
<213> homo sapiens

<400> 140
gactcccaac ccgttgtgct agaatgggac cttgggaagg aaagctttct ccgagggaat 60
tgaattagcc ggaaatattt aagatcccat tttccctccc attggcttgt atttactggt 120
cttgatgggg agtccgagga tggtacttag aggccctgca atggaaattc taaaacaatt 180
gaccagactt tcgaatgtgt sgttatgttt agatgtcttg ggttgctttc ccctgacttt 240
gaaaaggagc agacaaaaca tgttgatttg cgaacatcct tccagaacat aaatcactgg 300
ggtgagtgtg gggttggagt ctgtcatagc tcactgggag atgggcccac tgcctgtctt 360
tcatggtctc ccctttgcac tctgccctct gccccatgga c 401

<210> 141
<211> 321
<212> DNA
<213> homo sapiens

<400> 141
gactgtagga aggggctgac ccgtgcttag agtgaagggc ccaggaggat gtgagggatt 60
tgggttctgt tgacctacgg tgtaggagaa atgcttgaag agatggggag gagctcccac 120
aggaaattct catgtttgtg ccagtctttg ttgccagaaa tctcaacaga acatgaaagt 180
tcagatcccc agagtggaca rgctaggaaa ttctcaggta gagttccaag agagatgtgt 240

```
gtaccttcct tcaggaggag taaggggaaa cgggggcaaa ctggggcaaa ttatggagaa 300
gttccttgat tgctggcata t                                          321
```

<210> 142
<211> 666
<212> DNA
<213> homo sapiens

<400> 142
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ctgcagacac cgaggtgttg acggtggttg gaacagtctt gctttgtctg agtaggaatg 60
cagcctccaa aagctgactg ttgataggga agacttcagt gtattgtcct tttgttaagg 120
aaaatatgtg gatgtgcttg gcaaattggt ccctatctga ctcgcagaca cagggttgat 180
tggctcaaac actagctgct gacgcgaggt taccaaaaac tgcaacttat tgtgcacact 240
gtcattactt taaccaggtc ttggtgaagc tggtaagcca aactgactgt cttcaacttt 300
gtcatcctat ctgattctta gagctgrttt ttagatgatt ccttctgttg atgttcctga 360
ggaaagcatt ctttttacca tgagatgtag tccaaagatg gcttggtctg agattgcttt 420
gaaggttaat ttggaaaagc ctcgatgagc ttataacatt caagaagaac gttctgctga 480
tcatgcttat tttctttgat ccttgttctc agtttgctac atatttcaaa ctaagtttta 540
gaattcctga atgtccacac cacccaaggt aataactaac atttatagtg cattttaaaa 600
gtaccaagca ttgtgctagc ctttatattc attacaaatt tacattcatc acaaatttaa 660
ttccct                                                            666
```

<210> 143
<211> 400
<212> DNA
<213> homo sapiens

<400> 143
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ttaattgcta ccctccttca ttaaggggca attaattttg tgccttggtt taaaacggcg 60
gtaattataa ggtgaagaca aaaagcccat ggttaaacat aatcaggctg gatgtaaaag 120
gtgctccctg gcagattaag gaaggtggga gggaaggagc atgcatcgtc ccaggcaggc 180
aacattttcc gtcttgctay ttcttttctc aattcgtaac tgctgttgca gggtagggct 240
taggacaaag cccgtctttt tctgcccagg ttgcaggact ttgcgtcttg cgggtcttgg 300
gttttgaggt cttggccatt gggcattctc ctgccataga agtcagcccg aaggcctgga 360
ctgagctcag tggcccaggg ccttgggtgg tggacatggc                       400
```

<210> 144
<211> 401
<212> DNA
<213> homo sapiens

<400> 144
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gctcttcatc tagcaggtta ggagccggca cctagagatt ggaggcaact aggatgctgc 60
tgttgcttac aacacctctg tgcgagttag aaaaaggtga tccccccccc actctgggct 120
gaccctgctc tgggatcaca gggcttggga tgaatcctaa gtgaatgcct cttaagcagg 180
ctccctagtg ctttggtgga rggagaggag catagagctg agtggtcccc agtctgttgt 240
cccagcaggg tctctggcca ctggccatat gccagcaatc aaggaacttc tccataattt 300
gccccaattt gcccccattt ccccttgttc ctcctgaagg atgcatgcag ctcagacttc 360
agccatcagc catcagagca tccctgacag tttgaggcct t                     401
```

<210> 145
<211> 552
<212> DNA
<213> homo sapiens

<400> 145
atttagatgg tggcgctgat aacccaaatt gcctaaccca ttaacctttc tgtgtactag 60
gagtgggaag aggggaaacc gcagatttga agccacacta ccatatccca cctccaccac 120
ataggtccat aattttgttt ttctaagcct cagtattcac tgcgtaaatg gatatagcaa 180
cagccagagt tgtggagaca gtcaaggata atggtgtatt gtaagtatca gtctattctc 240
tgactcatat taagggctca tctggccctt cttcattttg ttccttcttc ccatgactaa 300
gacacagacc caagctttcc atcattgccr tcattgttca ttgtctatgg tattcctcag 360
agctctgcag gaagtgggat ccacagaccc accttctgcc tttgaagtat ttgccatcta 420
aaatgaacat acatttatgg aacacacagt caggagccaa gaacagccaa acagttgtga 480
aaagagcaaa gggtattttc atcatatgca tgtcaaaggg agttgcattt tagaggaaga 540
ttttttttttt aa 552

<210> 146
<211> 577
<212> DNA
<213> homo sapiens

<400> 146
ttgcatgacc agtgaggact agtgatgtgt ggtagtccat cgttgccttg caaggaggga 60
ggcgatgctt ccatggattg tgggtctgaa cttacttcag gkaaattccc tgaggtgggg 120
tttgagatag gtttattcac acgagactgt cagtggtctc agaaggcaac ggtttggacc 180
gaacacggca acctcatcac cttgctggtt gaagcagctc ctgccttttt cccacttcct 240
agcgctgcca gtctaggaac cctgggtctg ggggtttatg attttgtggg aaaaggaaga 300
aatgtgttga attttgcttt attctcttca gaggtccagg gtaaaatgag gagaggggag 360
agttggagat acttctattt attcagtggg agaatttgga agcccaggag ctggagttgc 420
aggtgagggt ggagactgtg attcatgtat tgtagatgtc aggcaagtgc taattaaatt 480
atcgacagtg aacctgaaat catgctggca gtgactcagt tcatggggtg tactgaattg 540
cctaaggtac acctttctga atgaagcgac acagtcc 577

<210> 147
<211> 489
<212> DNA
<213> homo sapiens

<400> 147
atctacggaa ggcatgtttt catccacagg gttctcagtg ataacactgc ttttctcttg 60
ggagcggtgc ctcggaattc aggatagcca aaaaactaca agctatggtt cccagagcag 120
gatggatgtg tctatctatc caactgtggg gaaaggtgtg cactactcag aaagtgatct 180
actgagggca tgttttcatc caacagggtt ctcagtgata cactgctttt ctcttggga 240
gcggtgactt ggaattcagg atagccaaaa aactataagc tatggttccc agagcaggac 300
ggatgcgtct gtctatccaa ctgtggggaa aggtgtgggt atgaggtcct gagaaggggc 360
tcatttctct aagagagaac atatatcttc aattagaggg actgcagttt ttcggragtg 420
agtagacagt aattattaat tattcagata accatcacca ctgccttagt tccagctctc 480
actatttct 489

<210> 148
<211> 409
<212> DNA
<213> homo sapiens

<400> 148
tcggtagaca caggaaggca ggtctctctc tttttctgtt ctgcagcagg agctcaaggc 60
tgcaaggatg agtgatggga gctttgcagc ccatcccctg caggtgcaac ccttgccccg 120
caggtaatta ccaggattag tgaatcaacc aggctctctt ctgtttgcag cctcctcaat 180
gccaacaaga tcaactgcct gcrggtgaac acgtttcagg acctgcagaa cctcaacttg 240
ctctccctgt atgacaacaa gctgcagacc atcagcaagg ggctcttcgc ccctctgcag 300
tccatccaga cactgtgagt acactgcctc gggtgccagt gggtgcccaa gcagcaggag 360
accccaaatg cccatcatga aaaacaccca aatgagggca gcacgagca 409

<210> 149
<211> 753
<212> DNA
<213> homo sapiens

<400> 149
actccagaac catatccaga aaggtctctt ctaaacatcc ctccctgatt tgggtcgtgc 60
ttattagcga aagagaatga gcttgcttcc tgagtcttcc tatactttgc cctgacccac 120
acttccattc agacctggtc tctgaaaaat tactagcccc aattataatg aacagtttcc 180
ccatgagaag taatttaatt ttgcaaattg ttgtccaagt cataagggtt ggaggtgtct 240
ggagactttg ggagcrgcag ttgttctcta atcctgtggc cctgtgggga tactgtgtac 300
atcagggtag gaatttcttc aagctgaacc aatgtctcct ctttctgcct ttttccttat 360
tttgtctctt tcttgcatca ctgctattct tccttaaaga caggcaaggg gttggtggat 420
tccaggctgt taccaccccg cttctggagg atgtggtgcg tgtgacagct tgggcaaggc 480
acagagccca ggctgtgtgt gtcacactcc gttcccaccg acaaacactg ctgctcgcct 540
ccctgtccaa atctgatacc acgtatgttc tcccgatcct gtgctgttgc tctggaaacc 600
aaggaagcag caggatctgg agtaggttca tggccgagtc aaccttaaaa gtctcccaga 660
cgtttcagca acttccggca ggaaaaatgt acctgcaccc ctgcccagtg agaagttttt 720
gactgatagc tctctccccg tggaaaagtt gcc 753

<210> 150
<211> 930
<212> DNA
<213> homo sapiens

<400> 150
accgttgctg gcagcagcca tcctggacct ggtgctggcc tctgatccca acccagccaa 60
gtccattcaa acatgggagc ttggctccct acctgtccca caccctggt catccaaatg 120
tgacaagtgt tcctcctggg aagtggctgt aggacaggga tgtataataa aattgtgttg 180
ctgtaatttc cacctcckac ccccacccc ccgtctatta agcttgtct gtgatcacgt 240
accaagtgtc gttgttctga gctgcccgcg aaaggggagg agggctccag ggcaggagc 300
aggcaagatg ccagatgaca tcagctcttc caaggctggt ttcagccgag gttgagtttt 360
atggcccttc ttcaaatcct ctgggatctc ttctgtctga actcacccca aagagaagaa 420
gcaacagcct attgcagtcg gtcctctatt actaagtatt tctggcagtg acaaatatgc 480
actgagattg aaattgactt ttaaagctct ggaaaagtta aaaatacttt ggggtagtta 540
tgagcattag gcataacaaa tggctctgag aaaccctgag tagtttcggt aatgaaatat 600

```
gaagtgatgg agatggcatt tcgggctggc tctgactggg gaacgaactt tttcggttat 660
gtacatacgc cgttattaac atttctggct cccactcgta taaaatatca cattccgacc 720
cccttgttat tacaaaccag ggcaataaca aaaacagcag ggggaaaaat gctggaaaga 780
acacattagt ccatcgaatc taattgcaaa atcatttcat taaaatgggt cagcggctcc 840
attgcagagg tccaccagtt ataatctaac tatactactg agagcgattc ctgctaacta 900
caggctgctc tcacttgatg taaaatgaaa                                  930
```

<210> 151
<211> 402
<212> DNA
<213> homo sapiens

<400> 151
```
ctcccaggct ccgaggatta ccgcagcagg ttcagcagcg agtgcttcat ggacctcgtg 60
tgccccgaga agtgtcgctg tgagggcacg attgtggact gctccaacca gaagctggtc 120
cgcatcccaa gccacctccc tgaatatgtc accgacctgt aagtccaacc tcggcgtgaa 180
ctccctactc ctccccacac rccagtcacc cggagccagc gtgggcaggg tctcctggcg 240
gtgacccctt cctggctcag tcatgtggtg tttgttggct gtctttcaca tactggtctg 300
aaggtagata cccaggcatc tcctgtggac agcttgcttg caaataaaga cagttcattc 360
cttcattcta cacatatttt ctgaacacct actgtgagcc gg                   402
```

<210> 152
<211> 573
<212> DNA
<213> homo sapiens

<400> 152
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actactgtga gtactggttg agtatccctt atctgaaatg catgggatca ggagtgtttc 60
agattccaga ttttttttgga ttttggaatg tttacatgta cacaatgaga tgtcatgagg 120
ctgggatgca agtctaaaca cgaaattcac ttgtgtttca tgtacaccat atacacagcc 180
tgaaggtagc tatgtgatat ttttaataat tttatgcatg aaacaaagtt caagtacatt 240
gaaccttcag aaagcaaagg tgtcaggtgt ggaattttct acttgtggca tcatatcagc 300
actcagaaag tttcggacat tctggttagg grtgcttact tataatgaga gtggactgta 360
ccacctcgtt tttttctcat tacccatgct cccacccatc agttccctgt agacaaatat 420
gacagaggcc ttctaggccc tgggcagcat ctggatctca ctggtgctac tcagatcgct 480
ttcctccctc cgtccctgcc tgcagccacc accttggtca tggctccagc gaatgctgtg 540
taaccgggtg cagtggagag cacgttgggg ggc                             573
```

<210> 153
<211> 821
<212> DNA
<213> homo sapiens

<400> 153
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ctcctcttaa atcagtgcta gtgagatctc taataagaca gaaaatagtt tgagagtcac 60
tttttaactc tgtcagtccc ccagagcatt gaaaagacaa ttacacagaa aaaacttcaa 120
atcccatcca gcctgttttt ttaaattgat acataacaat tatacatatt tatgggacac 180
gtgatatttt gatacatgca tgcaatgtac agtgatcaaa caggatattt aggatatccg 240
tcacttctaa catctatcat ttctttgtgt tggaggtatt tcaaatcttt tcttctagct 300
attttgaaat acatattgtt gttaactata gtcaccctac tgtgactgtc accctatcta 360
```

```
acactagaac ttattccttt tagctccccc attaaccaac ctctcttcat ctccctcaaa 420
ccttcccagc ctctggtaac catccttcta ctgtctccct ccatgagatc aacttttta 480
gctcccacat atgagtagga gcgtatgata tttgccttgc tgtgcctggc tcatttcact 540
taacacagtg acctccagtg ccattcatgt tgctgcaaat gacaggtttt cattctttt 600
atggccaaat agtcttccat tgtgtatata tacaccacat tttcttgatc cattcatcca 660
ctgaccatac agtctgtttc acaaaggtag cttcacctgt atagggccag ggtccctgct 720
ccctgggcca gatgctgaag accaargttc agggagcccc agactgagct ccttccacca 780
tccagtcctc agtctcaggg gccccagaga gtccccagca g                      821
```

```
<210> 154
<211> 663
<212> DNA
<213> homo sapiens
```

```
<400> 154
ggagtcagag tcatcagaca ttctggagcc ttggatggga aagaatttag catgctgaac 60
acctccagca tgcacactca cacacacaca ccacacacac acccaacata gtcacccact 120
ctcgtgtata cacgtatata gatttatacc agraacttgc tgaaggaggc acacaaacag 180
acatttaccc acaaacataa gcataaggac ctttataaaa atgatatatg cagacacgtg 240
caacatgcac ataaacatat atacaaacag gcacagacac acaagcacac acatacatac 300
aagctgatgt ctacaaccac gtcttgattc tctcttctct tcccagaaat atgtgtgcac 360
accctagcag ccacacaata tgcgtgtgta tacacacata tgcatgacat gtgcttccaa 420
gaaagcatgc acaaacaata atgtacatac acatttacac acagccccag tggggctcca 480
gtccctgcta tcacaggaca aacctgatca acatggctgg actgagctta gaattggcaa 540
aagcatctca cctatacaca cacacacacc accgtggcac catttgggac agaaaagatc 600
atgcctgtgc tctctcatcc ccacccctct acctgtaaga tgctgaggat gtaacttgat 660
cgg                                                               663
```

```
<210> 155
<211> 734
<212> DNA
<213> homo sapiens
```

```
<400> 155
ctctcacttt ctgctatcca actgaatctc attcttttt gttttgagat ggcgtttcac 60
tcttgtggcc catgctggag tgcaaagacg cgatcttggc tcactgcaac cctcgcctcc 120
gggttcaagc gattatcctg cctcaacctc cccaagtagc tgggattata ggcatgtgcc 180
accacaccca gctaattttg tatttttagt agagacgggg tttcatcatg ttagtcagcc 240
tggtctcgaa ctcccgacct caaggtatcc acccctctgc gcctttcaaa gtgctgggat 300
tacaggctga atctcgttct ttaaaattca ttgctcatct ctccacctct aggaagccct 360
ccctgactat gctggtctta tttattagaa agacttcttc tagctctagc ttccccagca 420
aactattatt gagcatcagc catactccaa ctccgagacy ggtgctttaa ctgccttccc 480
caccatgcta tgagctactt gtgagcgggg aattgtattt ttattttta ttagcagggt 540
ttagtacagc gctaaaatat tttttaatgg aaaaaatgca tgaatgggaa gttgtgctgt 600
aagagcagat gtcaatttta tggaattcat tacctcagag gtatttgagg cggaggatgt 660
gaacatcagc ttcccaaatg tctagatgtg cgtttcccaa agcgattcat tttaatgggt 720
gttcagcaac aaaa                                                   734
```

```
<210> 156
<211> 402
```

```
<212> DNA
<213> homo sapiens

<400> 156
aggaaagatc atcctttccc tctttctcca aggagagtta gacccttgga caggtgctcc 60
atgtactagg acctgagttc tctgactgct gcagtgtttt gtctggtctg ccacaaccag 120
accgtgcacc tgtgacaaaa aagacctccc tgtccttaag gccagagaac acagtagccc 180
tcagtgacca cttgttgaca sgtggatggt taattcactc ttctctgctc tgtttcccag 240
acgcctagaa cagaactcca tcaaagccat ccctgcagga gccttcaccc agtacaagaa 300
actgaagcga atgtgagttt cccctgtgga gaaatgggcc caaatgtttt caatttccag 360
ggttgtttgc aatgtgtagt gggcaacctg tccaggtgac gg                     402

<210> 157
<211> 402
<212> DNA
<213> homo sapiens

<400> 157
ttccacaatg aaagcatata tcaaaacatt gtgttgcaca ccaaatatgt atacattttt 60
aaaagactag ttgagtacag tagtgaaaaa ggaggaaaga gtagaacaag gagtttgatc 120
tgtaactgac tgtgaacaat ccattgagag aactcactac ctttgaacca gcctaaatat 180
gcagttttta taataataaa raaaaagaca aagtgaccaa ggtcaattcc cagctaaact 240
gtctatcact tctccaattc ccactctcca gcacctccaa accgtggggc atctcacctc 300
atactgtagg gagagatggg tccagaagtc tagttgtgga ctgaaaacca gtttgccctc 360
ccagagctaa agcagagggt ttccgtgctg gccacatagc tt                     402

<210> 158
<211> 402
<212> DNA
<213> homo sapiens

<400> 158
acagatcctt cgtgtttgtc tggaatgctt tgcataggca gccatgctga gggcaagtga 60
gattaggata atccagagta tttgcttgtt aagaccctta aacaaaaccg gagcgcggaa 120
gaaaagcccg gtgtaagctg acgagtttgt gagtgcaatc tgcggatttg tcggaggtga 180
tttcgccagc taaagggata ractagacag ctgtgccgaa gagccttaac ctgtgaaata 240
tcgttcaaag tacaggcttt ggaggcaggg aggggaggaa gtagaggcct cagcaaaggt 300
tgtggcatgg ttcttttgaa atctattaga agaaggaagg aaacaggctc agagagattc 360
ccactgcatg tgcttaagag gctggagtgt ctggcttcgc tg                     402

<210> 159
<211> 402
<212> DNA
<213> homo sapiens

<400> 159
tcactgctca aaagctcctt tcaggtcagg gaggaaaagt cactggggag gtgaaatgac 60
tctggacttt ctgggagaaa aatgagcagc tgctgaggca tgaggcaaga agatgatgcc 120
tacaggaacc ctggcttgtg gttggttggg tgaagccggt tcctgtttca tctgtgtcgt 180
taattgcttg gtaatgaaac rtaaggccct aatttgactg ggctcaattt tccacctaca 240
```

```
aagtgatggt tcacgtgttc acagcctcgt gtcccgatga agatgccacg ggtgagtatt 300
ctttgaaaac caagaagagt gatgtaaatg tggtgcactt tatcatgagg tagttgaact 360
gaaggctctt taagctcctt ctcttgcact atgagtaaat ga                     402
```

```
<210> 160
<211> 402
<212> DNA
<213> homo sapiens
```

```
<400> 160
catcttgctt cctacacagg cgactgaatg acaatgaggt atctgttctg gaggccactg 60
gcatcttcaa gaagttgccc aacctgcgga aaatgtaagt caacttcagg aacttggcag 120
cagcctctgt tctctagcca gagcctgtgt tctagactag aggaaccagg ggaccggcct 180
ctcccccagc ctctgctcca ytccctccca gccttctcct cagccccgct gtggcctctg 240
ttaggaagca agacatgtag acacagacca aagtgatgct tcatggtttc agttgagtgt 300
tatacagagc gagcattcca caccatccct gacccctccc tggaccctct gctcacccca 360
cccctacacg ccatccaaca cctaccccag ggctggtggg tg                     402
```

```
<210> 161
<211> 402
<212> DNA
<213> homo sapiens
```

```
<400> 161
aaaatgtaag tcaacttcag gaacttggca gcagcctctg ttctctagcc agagcctgtg 60
ttctagacta gaggaaccag gggaccggcc tctcccccag cctctgctcc actccctccc 120
agccttctcc tcagccccgc tgtggcctct gttaggaagc aagacatgta gacacagacc 180
aaagtgatgc ttcatgcttt yagttgagtg ttatacagag cgagcattcc acaccatccc 240
tgacccctcc ctggaccctc tgctcacccc accctacac gccatccaac acctaccca 300
gggctggtgg gtgggactca ggtaaggact agcaatgggg cacgggtatc taaggtatat 360
gctatttggc aatttttgtg tggtgacagt taaatgtctg tt                     402
```

```
<210> 162
<211> 406
<212> DNA
<213> homo sapiens
```

```
<400> 162
gtggcctctg ttaggaagca agacatgtag acacagacca aagtgatgct tcatggtttc 60
agttgagtgt tatacagagc gagcattcca caccatccct gaccctccc tggaccctct 120
gctcacccca ccctacacg ccatccaaca cctaccccag ggctggtggg tgggactcag 180
gtaaggacta gcaatggggc acrggtatct aaggtatatg ctatttggca attttttgtgt 240
ggtgacagtt aaatgtctgt tttcaaatgg aatcaaaaga cccctgcatc agtgatacac 300
atcagaatga acatgccagc agcttcccac agtgggtttc ctccaggagt ccgtgggtct 360
gaccatgcct tggcctaggc aagggcccac ttgcctatgt tggctt               406
```

```
<210> 163
<211> 381
<212> DNA
<213> homo sapiens
```

<400> 163
tgagcttctt taagaataac attttcaatt ctttacctgg catttcaagg aattctttt 60
gattgggatc tgttgctgga caattgtggt cctttggtag catcatattt ccctgctgtt 120
tcatgtttcc tgtgtcatta cttggatttc tgaacatctg gtgtagcagt cacttgttct 180
aattgtttga aattgctttt gtaggggaga attttctcyg aggatatata tatatatata 240
tatatatgtt gttgattaag atactttggg tttgattttg agtgcctgtg gtagtgtgat 300
ctttgtatga attcctcggc agggcatagg atcagtggtc tctataatca catcctcagt 360
gacttagggt accattatta g 381

<210> 164
<211> 625
<212> DNA
<213> homo sapiens

<400> 164
tgtctgctta ggaccagaag ccagtctgca aagggaaagt gggagatctt gcagaatgaa 60
agagcattac ccttgggaaa gtaggagacc ttctctgaaa agctgaaaga acaccatctc 120
tctgtgggat ggattcctat aaactcctga aaccagcctc tagataagga tttctcaact 180
tcggaactat ggacattggg gttaattatt cgttgttggg aggctgtcat agacattata 240
ggatgtttaa caacatctgt ggcctctacc cactagatgc cagtaatact taccccagta 300
ttgacaacca gaaatgtctt cagaccttgc caaatgtcac tgagggagca caagtgcccc 360
cagttaagaa tcactgctct aaagcaatgg tcctcacyat cagctgatta gaggaatcac 420
ctgagcagat tttttccaag ctactgatgc tcaagcccat gctagaccaa ttaaatcaga 480
atacctgggc atggaactca ggcatcagag gatttaaaag ctccccaggt gattctaatg 540
tgcagctaac attgccacag ctctggatgt ttatccccgc agggaagctc gaggttgcag 600
ctggcagagg actgcacccc cacca 625

<210> 165
<211> 402
<212> DNA
<213> homo sapiens

<400> 165
gagccagctg ccatctgggc atggagttgg gaaggggctg gcgctggctg agggagggcc 60
cagagcagag gggaagggag gtatggcagt gagcgcactc aggacctgcc atcagtactc 120
tggttttgct gcccagggcc agtggacatc aacattgtgg ccaaatgcaa tgcctgcctc 180
tccagcccgt gcaagaataa ygggacatgc acccaggacc ctgtggagct gtaccgctgt 240
gcctgcccct acagctacaa ggtatgctgg aggccctgcc ccccgtgtt catgcctcag 300
gctcctcctt cagccctggc cctagagagg ggcaccatgc cctgcgtacc ctcccttctc 360
caagggacag cctggatgag tccatcgcac aggtcaccac tc 402

<210> 166
<211> 649
<212> DNA
<213> homo sapiens

<400> 166
gagctcacca gcatgatgga gtggacacac agagagagct tagtgatgtg gagtccagga 60
cgcccgaacc taagcaagga caccccagag gcaatcacga tccctcatg tctcaccttc 120

```
tgaggagctc ttctcaagggg ttaaactagt ctccaaattg cctttgatgt tacagcagtt 180
gtaattggtt ttatgcctat gagggtgaaa aacaagaggt gaccctagct ccacgtcttc 240
atcacaagag ccgccccacc tgccctggtt cttgttcccc aggccctgg atcaactggt 300
gtactgaggc caccaagccc acgtttagag aggagagrtt gaagagttaa agcaatagca 360
gaactaacca gattttagg gtagttctaa ttcagtcata tcctggtggg ttcaacgtgg 420
cctgatgcgg aaccccacag gtagacgcag aagagtgaat ggggaaaagg tcattttctg 480
gtacaagagg aaggcagtgg aaaaaaatcg acagcagtcc tgaaacctag gtcagggtgt 540
gctcactctc ctagagcggg gttggtgtcc tggtacaggg tgttaggata ttcaagcacg 600
atgttgccca cttcagagaa cccagagttt aatgcaagtc gcagtgtgt          649
```

<210> 167
<211> 590
<212> DNA
<213> homo sapiens

<400> 167
```
ctgcttggat gacctccttc cctggtctca tgctcccacc cctacccgct ccctgaacac 60
tgtcctcagg ttccttcctg ggcctggcaa catctctgga aagaaaatct cacccaaagc 120
acaatcgtcc tatccccagc acctttcctc atgactcacg ccaaccttgg cctctattcc 180
taccctgtc tggccagggc tgagttaatt agctctgcca aacagtggta cccaaaaaga 240
aggacagtga gagccagagg agggcagggt attatctgcc aaccttgacc ctttggtctc 300
ataagtatcc tgttagtact ttggacccca aatggatgtg gcggccctgc gtggcacagc 360
agggaaagag tgcaggatcc aaggactggt atctccccag gaacacagtc ttggcaattt 420
tctgggcatg actgtaggtt agcggggtgg caagrtgggg gcggggctat agaaagaact 480
aagtaggaga aaaggaaaat ggaaagtgga cctaggaagc agtagagctt agttctaact 540
ctagctctgc cactatcgtc ctacctgtag atctgcagga tcctggctgc          590
```

<210> 168
<211> 401
<212> DNA
<213> homo sapiens

<400> 168
```
atcacgccac tgcactccag ccttggccac agagcgagat tcggtctcaa aaaaaaaaag 60
aaaagacaga ttcagagagg tttagtgact tgttcaagat cattgtctta ttcatccttt 120
cctgaatacc tgctaccggt tagttgctgt gcttaactct ggagggggaa agaaagcaaa 180
cagtgaatga gacacaattg ytgccctcag ggagctcttg gtctagaagg ggaaataagt 240
aaataagcaa ctacaacaca aggcgatacc tgaaagaaga gccatgggga tacaagtgag 300
aggcacctaa cccagtctta gccacccaaa aggctttctg aaaggaaggt taataatcag 360
cactgacatt catcaaaccg tgactatgtg ctgcacaaag g          401
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<210> 169
<211> 1118
<212> DNA
<213> homo sapiens

<400> 169
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tgcatccaga accccctgtca gcatggaggc acctgccacc tgagtgacag ccacaaggat 120
gggttcaggt aacagttcac ccctggcctc cctcactgta ttagtttgct ctcacactgc 180
```

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taataaagac atacccaaga ctgggtaatt tataaaggaa agaagtttaa aggactcaca 240
gttcagcatg gctgggaagc ctcacaatca tggcagaagg caaaggaaaa gcaaacatct 300
taaatggcgg gaggcaaaag agagcttgtg caggggaact cccatttata aaaccgtcag 360
ctctggtgag atttattcac taccatgaga acagtatggg agaaactgcc cccgtgattc 420
aattatctcc acctggcccc acccttgaca cttggggatt attataattc aaggtgagat 480
ttgggtaggg acccagccaa accatatcac tcaccttgga gggctccctg ggcaggctaa 540
agaagcagag ataygaccag cgagggcgtg cccagtgccc gtgctgtgct ggccctgtat 600
gagaatgatc tcaaggctct tcgcaccctg taagggaagt acaatttatc cccactgtgc 660
agataaggaa gttcaagcat cagagggaca aatcctctgc ctagagttac attaagcatt 720
ggcacaggga tttgaaacca ggtcccaacc tcgtgcttcc tccaagggag gtgtctgctg 780
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caactagtca agtattttct catttaaatc cctacagacc ctatccagta ggtaggtatt 960
atcttcattg aacagatggg gaagctgaga cacagaaatg gacttgctct aggtcgtatc 1020
tcctgatgct cattcctgga tcttccaggc ccacctccag ccctctttcc ttcctgacat 1080
taacatttca agaagaaaag ggaatagaag tcacttag              1118
```

<210> 170
<211> 599
<212> DNA
<213> homo sapiens

<400> 170
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ttcctttcat acttccttcc ctgaaaaatc caggggcctt acttttctgt aacaggtgaa 120
ctgggctgct aagccttgtc tgtgtctctg aagcctcctc tgacctcctg ggggaggtta 180
tgggtccccc ttgtgcttcc acaaagtttg cccttctggt cacacctaca agtctgtatt 240
gtaattgcct gcttatttgt agatcttccc aaataggctg tgggtaggaa aggacccagt 300
cactgttgtg tccccagtgc ctggcacagt acctgccaca caggaggtgc tcagtaaata 360
agtgtggaat gaaaaaacaa atgaataagc atggcccaaa gtsagggcca ggcatcctgt 420
gctctcagct gcacctgccc ctgcccctga aagatcaagt aaaacagcca aatggtgatg 480
ctaggacagt gtccaggagg acacctggaa tcttcccgtg gtcactgcca aagaaaccaa 540
ggcagaggtg caggaggata cacaaggagt gagaacacag gactcctgac gtccatgcc  599
```

<210> 171
<211> 608
<212> DNA
<213> homo sapiens

<400> 171
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gccaccacca ctctcatata tgcacctctg gaactacttg gcaccaacca aagacctgaa 60
aaagtatttt agtcactcac attcagccct gcctcagacc ccaagcatca tcatcatcat 120
catcatcatc atcatcatca tcatcgctat tatttatgga gctgccatta catgctaggt 180
gtcttacata kataaccatt aactaattcc ccatagggta gttcatatta tttccatttc 240
ataagtggta aaaacaaggc tcagagagaa ctagtcattt cctcaaggaa cacagcagcc 300
aacttagaat gtgcactccc atctgtgtgc ccctagaacg catgttttga gagggctag 360
ccaagtggtc ctgcatagag gctcccagca ctaactttgg gctggatgcc tgggttcagc 420
tgcttgctcc ccatttcact tactgctgtg cgatcttggc catattacct cactttctaa 480
gtctgtcttt cctgtctgta aaaatagtgt aataacaatc acaccaatct catagggttg 540
ttgtgaacat gatatgcgat catgaatata aaacacttag catgaggcct ggaacggaaa 600
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atgtgctc   608

<210> 172
<211> 663
<212> DNA
<213> homo sapiens

<400> 172
ggagtcagag tcatcagaca ttctggagcc ttggatggga aagaatttag catgctgaac 60
acctccagca trcacactca cacacacaca ccacacacac acccaacata gtcacccact 120
ctcgtgtata cacgtatata gatttatacc agaaacttgc tgaaggaggc acacaaacag 180
acatttaccc acaaacataa gcataaggac ctttataaaa atgatatatg cagacacgtg 240
caacatgcac ataaacatat atacaaacag gcacagacac acaagcacac acatacatac 300
aagctgatgt ctacaaccac gtcttgattc tctcttctct tcccagaaat atgtgtgcac 360
accctagcag ccacacaata tgcgtgtgta tacacacata tgcatgacat gtgcttccaa 420
gaaagcatgc acaaacaata atgtacatac acatttacac acagccccag tggggctcca 480
gtccctgcta tcacaggaca aacctgatca acatggctgg actgagctta gaattggcaa 540
aagcatctca cctatacaca cacacacacc accgtggcac catttgggac agaaaagatc 600
atgcctgtgc tctctcatcc ccacccctct acctgtaaga tgctgaggat gtaacttgat 660
cgg   663

<210> 173
<211> 121
<212> DNA
<213> homo sapiens

<400> 173
aggagagtca gcgagcgggc agaggaagac cgaggtcagt gtgcataaac ccaaatgata 60
yagccgaggg ccctggccca ggcatgaaga tactaagcac agggtctggg gatagagatt 120
a   121

<210> 174
<211> 516
<212> DNA
<213> homo sapiens

<400> 174
tcttcttggt ttggatccgt tgctggtgag ctagtgtgat tttctggggg tgttaaagaa 60
ccttgttttg tcatatcacc agagttggtt ttctggtttc ttctcattag ggtagggtct 120
gtcagaggga aggtctaggg tttaaggctg ttgttcagat tctcttgtcc cacagagtgt 180
tcccttgatg tagtactccc cctcttttcc tagggrtgtg gcttcctgag agctgagctg 240
tagttcagct gattgttatc tctcttcttg atctagccac ccagcaattc taccaggctc 300
gggctggtac tggggttgt ctgcacagag tcctgtgatg tcagccatct ggatctctca 360
gccgtggata ccagcacctg ttctggtggc aatggcaggg aagtgaaatg gactctctgg 420
agggccttag ctttggtttt ttaatgcact atttttgtac tgattggcct cctgctggga 480
ggcactttca agagagcctc agctatggta gtatgg   516

<210> 175
<211> 402
<212> DNA

<213> homo sapiens

<400> 175
aagggacact gacgatcatg ggaagggctg agtgaccatg cctgcatggc atgaagccta 60
gtatgagggt ccctgagccc agctttgtcc ttagtcattg ctgtctctgt ggttgtaggc 120
atctggaaga caaccaggtc agcgtcatcg agagaggcgc cttccaggac ctgaagcagc 180
tagagcgact gtaagtacag wacagcctcc tttcttaaag tatttattta catttagtgt 240
tttttgtttt gttttgtttt gtttttgtaa attggcctta taaccttgtt aaaaaaggtc 300
tccagtgttt aaatagaatg tttgctatta tacttaaggc acattagatg catgttaaag 360
aaacactgag atccacttac actccttttc tgtaaaagtt gc 402

<210> 176
<211> 581
<212> DNA
<213> homo sapiens

<400> 176
gaacttagtt ccagtgatag ggaaagtgga aggctatgaa caaataaatc accatgccca 60
gcttctagga tgacagcgat gtcaggttga ctaaccatgc ttccctttca tagagatgat 120
aatttcttct ccagcctgtg cattaaaaga gcaatcagga caaaagttat ctgtcttgta 180
gcttaatgga gaggagggga ggagagcatc agaaagggtc agggcccttg ctgaacaccc 240
acagctgtgc agacaggtag caaaatttga aatgggcatt gatggactag aggagcaagg 300
aatattaggt ttcattgctg aatattgaac actttcatca atccttaagt ctgtgagtga 360
taagaaactt cccaagtgct tgtctgtcra aaagtctaag acattcagag gtacaggaaa 420
aagcaattta gattttattt tccatcttta cttggtagtt aattttgacc cataagtgtg 480
gctccatgca agaagtacag actgggccaa ttggccactg ccttggtatt tgtatgccat 540
ggaatcttag ctggcaaatt gttactagaa gtgacagcta a 581

<210> 177
<211> 683
<212> DNA
<213> homo sapiens

<400> 177
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cagaaaaatt tgttacctaa agaagggacc acagaaggca ggcagttaca tataaaagag 120
ttctgctatg tgcataatga atggtttatt ccatacaata tccttaaggt tagccgggca 180
cgctcaaggg atatcgttaa tcatcagaat tgccgccttc tggacaagca acatcccttc 240
agtccaagcc agtctggatt aaatagaccg taattgtaac ccacaaaaat ctgacctgaa 300
tttgctctcc attgcagtga cctggacaga aataatatca ccaggatcac caagatggac 360
ttcgctgggc tcaagaacct ccgagtcttg taagtagttg atggctctca agtgtgtttt 420
cattttttagc tcttcagcct cacaaaaaaa tgttccactg cccctgacat cacactccca 480
agccctggac aacaggaatt caccattctg cagcagaaag cccctcgtta gcrtacccac 540
atgcttacag gtatcacatt ctgtgtctag atgctgctgg ctgagctaga tcgatggaag 600
aacttagttc cagtgatagg gaaagtggaa ggctatgaac aaataaatca ccatgcccag 660
cttctaggat gacagcgatg tca 683

<210> 178
<211> 304
<212> DNA

<213> homo sapiens

<400> 178
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tggacttaag taaagaatat gagtagagtg ctcagctcag tgcaaaaatt aaaaaaaaaa 120
aagtgtcagg agccttatcc gtccttggat cttaacagtg aatgagtttc agtgtttytt 180
tccaggggcc ctgctggccg agccccttttc cttccctggt tccttctctc tccctcctct 240
actgcctcct ccctccaggc tctcggtcgc tccagcaaag ttcccaactt agtcgacatg 300
acgc   304

<210> 179
<211> 606
<212> DNA
<213> homo sapiens

<220>
<221> misc_feature
<222> 560, 561, 563
<223> n = A,T,C or G

<400> 179
ttagtctggc tggttggaaa cagaaaacct ccgctgactg tggtggccac atgaagggta 60
gtatctcaca caggaaaata tacacaggtt gacgagaaag tttgagatgg ggtttcttgc 120
aggaatgggt gagtagtttg cttttgagaa acacaggttg aggagaaagt ttgagatggg 180
gtttcctgca ggaatgggcg agtagtttgc ttttgaaaag cctatggaaa agtaaagggg 240
aaaattcaaa agtgtccagg gactttttacg caactctaaa aatgacacca cagagtgtaa 300
agccacctct ggcccttgga catagaaagt tctaaacaat agcctgacct cctagtgatt 360
tacccagtct tctccaagga gggtaattgc tccatggggt ggctaccgcc ttctgcagat 420
gccccagaat cagctgagga agtggacaga gccacatstt cagcattgga agcccggagt 480
cctggctctg gttatttcac taatagctag gtgaccctac ataaatgccc gcctttctct 540
gaaactcagc ttccttgttn ncngtaaaat acaagagttg aactatattt gggttctcaa 600
agtatg   606

<210> 180
<211> 606
<212> DNA
<213> homo sapiens

<220>
<221> misc_feature
<222> 560, 561, 563
<223> n = A,T,C or G

<400> 180
ttagtctggc tggttggaaa cagaaaacct ccgctgactg tggtggccac atgaagggta 60
gtatctcaca caggaaaata tacacaggtt gacgagaaag tttgagatgg ggtttcttgc 120
aggaatgggt gagtagtttg cttttgagaa acacaggttg aggagaaagt ttgagatggg 180
gtttcctgca ggaatgggcg agtagtttgc ttttgaaaag cctatggaaa agtaaagggg 240
aaaattcaaa agtgtccagg gactttttacg caactctaaa aatgacacca cagagtgtaa 300
agccacctct ggcccttgga catagaaagt tctaaacaat agcctgacct cctagtgatt 360

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tacccagtct tctccaagga gggtaattsc tccatggggt ggctaccgcc ttctgcagat 420
gccccagaat cagctgagga agtggacaga gccacatgtt cagcattgga agcccggagt 480
cctggctctg gttatttcac taatagctag gtgaccctac ataaatgccc gcctttctct 540
gaaactcagc ttccttgttn ncngtaaaat acaagagttg aactatattt gggttctcaa 600
agtatg                                                              606
```

<210> 181
<211> 606
<212> DNA
<213> homo sapiens

<220>
<221> misc_feature
<222> 560, 561, 563
<223> n = A,T,C or G

<400> 181
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gtatctcaca cagggaaata tacacaggtt gacgagaaag tttgagatgg ggtttcttgc 120
aggaatgggt gagtagtttg cttttgagaa acacaggttg aggagaaagt ttgagatggg 180
gtttcctgca ggaatgggcg agtagtttgc ttttgaaaag cctatggaaa agtaaagggg 240
aaaattcaaa agtgtccagg gacttttayg caactctaaa aatgacacca cagagtgtaa 300
agccacctct ggcccttgga catagaaagt tctaaacaat agcctgacct cctagtgatt 360
tacccagtct tctccaagga gggtaattgc tccatggggt ggctaccgcc ttctgcagat 420
gccccagaat cagctgagga agtggacaga gccacatgtt cagcattgga agcccggagt 480
cctggctctg gttatttcac taatagctag gtgaccctac ataaatgccc gcctttctct 540
gaaactcagc ttccttgttn ncngtaaaat acaagagttg aactatattt gggttctcaa 600
agtatg                                                              606
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<210> 182
<211> 557
<212> DNA
<213> homo sapiens

<400> 182
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aactatatgt ccttgtttta ttttatttta ttttttttgg ggggtggttt ccatagggtt 60
taccacatat gtctttaact aaccatagtc tactttcaaa taatatcata ccattttacc 120
tacagcataa gaaccttaca acagtataca gtatacttcc attactgttc tcccattctt 180
tgtgctgttc ttttcatata cttkaacacc tattataacc cccttggtac attattactt 240
tactttaaac agttatcttt ttaaacacct ttattgtgag gtacaattta catgtaacac 300
aagtcactca ttttaagatg agtttgatga gttttgggaa atttttatag ttgtgtgact 360
atcaccacaa tctagcctta gaacacttgt gttgccccaa agagtgcact catgcctgtt 420
agcagtttcc actatctgtc ccaccatccc cttggcctca ggcaaccact gatctgctct 480
ctgtctccat agttttgcct tttctttaca tttcaaataa atggaattct atggcctgta 540
gtcttgtctt tgtgtct                                                  557
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<210> 183
<211> 1001
<212> DNA
<213> homo sapiens

<400> 183
atagagtctt ccaatccatg agcacagtta catcaatcat tttataagct cattttagtt 60
tcatcaaaat tttgtcatat tcagcatcaa atcttgcaca tatttagttt tcccctaaat 120
atttcatgtc ctttaatgct attgtaaatg atactgtttt gtaatttcga tttccagtta 180
ttcactccca atatctaaga cggcaattta ttttcataca ttgaccgtat cttcttatat 240
acgacaactt tactaaactc aattagtaga atcttttcaa aaagttttat ttggataatt 300
ttaatgagca caagagccgt tttgttacat ggagatattg tatagtggtg aagtctgggc 360
ttatagtata accattactt gaacaatgta cccattaata tctcatccct cttcctgctt 420
gcaccctgga cccttctgag tctccagtgc ctactatttc atactctatg tccacaagta 480
ctcattattt agcttccacc rgtaagtgag aacatgcagt atttaacttt ctgtttctga 540
gttgtttctt taagataatg gtctccagtt ccatccttgt cactgcagaa aatacatgct 600
ttcattcttt ttgtatagct gtcacctagc agattctttg ggatttccta tgcagataac 660
tgtgttgttt gtaaatagag atttatgtct tcctttcaaa tctgtatgtc tttttacttt 720
ttctcatatt attacactgg gtagaacctg aagtatgtgt tgaaaatgag tggtgaaatt 780
agacattctt gcctttattt ctgattttag gagggaagcc atcattcttg cattattatg 840
tacattagct gcagggtgtt ctatagatat tctttattca gtttcaggat gcttcccttt 900
tcctttagct ttccgagaat ttttatcatg aatacatgtg aaatgttgtc aaatgctttt 960
ttcgcaccta ttgagatgat agtatgcttt ttattttttt t 1001

<210> 184
<211> 1001
<212> DNA
<213> homo sapiens

<400> 184
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cctcctaggc catgagaaat aaacagtaac attttttgaga cttcttcttc aacccagtca 120
acaaacattc cattgcaaag taagaaaaga gggcagggca tgaatttaaa agcaaattgt 180
tccaccattg tctggagtct ggtgtctgct tctttctgaa aagattattg actcttttct 240
gtttctttta ttaaatgtca tattcattta agtgttatgc aagttgccag tgtgtatgga 300
gcatagtaat agatgttttt cataaatgcg tttatctttt atttatcagt gacacaaaat 360
ggcaagtgat aatcaaagca atgacttagg aatcctgacc aagacaatct ttccatggaa 420
aaggatcatt tttaagaaaa taataatagt ggctacaatt tttaaaatga gaaaactgag 480
gtttaggtga gtttttgtttg yttttgtaag gttgattgaa atatttacag atgggaaaat 540
gtgtcctttt taagagtata ctgtgatgag ttttgaaaag tgtatacagt tgtgtaatta 600
aaatcataac taagctatag aacatttcca tcacgcaaat gtccttatgt ctttttatag 660
cctattatct ctcctctcca ccactctcta gcaagcaaaa atctagtttt gggtctgctt 720
tttgccttt cagaatgcaa tataaatgta agagaatttg taacttttgt gccttctttc 780
actaacagaa tgttttcag attcatctat gttgttgcct gtatcaatgc tttatgttta 840
ctgctaagtt atgttccatt aaattcatgt accacaaatt ggctgtccac tcaccaactg 900
atgaccattt gagttgtttc tttttttttt gagaaggaat ctctccctgt cgcctaggct 960
ggagtgcaat ggcatgatct tggctcatgc aatttctgcc t 1001

<210> 185
<211> 1001
<212> DNA
<213> homo sapiens

<400> 185

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gttaattttt atagtagttt cctcataatt agatatcaca tctccatcca atattacata 120
ttgtttcctt catttaatat taagcattaa gcattttcca taaagttaat ctccaaaacc 180
atcatttcaa ttgttgcata attttttcatt tgtccattta tgtgaataaa tgtactatat 240
gctacacaac aatttattat tggacattta aattacttca aatgttatta aaatatatta 300
ttatgaatgt tttgagcata tttaagcata attgatgaat tcataattca gctgtctacc 360
atttaatgac caattattgg ctgccagtta tggtgcactg tgcaaatgac ttttcataca 420
tctcatttga tcttaatagc acacagagta atgtctatgt tgaagtagtt tgtcacatat 480
aaaaatgtaa acataatatg raaacactct tgaactgatt gatcattttt gctaaatatt 540
aatatgtagc cacatttgtt ttagaattct ttaaaaagta aaatattttta catagagttg 600
aaactcctca tcctattgcc ttcccacctt ccccgtaggc gactactatc cagaacttag 660
tgtttacatc tctattttct aattattttg ctcatatgaa tgtgccaata aagaacacaa 720
ggaattaatg tgcttctttt aagatttata taaatggcat aatatactgt acatattttt 780
gaacttcgtt gttcacttgt gtcttaaaat tatgttgata catgatgatt ttgttaattt 840
aaacagctgc atagtttttcc gctgtatgta taatcacaat ttatttatgt gttaatttga 900
tgaacattta ggctttccct ataatttgcg tttgcaagca atgctataat gaacatcttt 960
ttacatgtct cctttgtgca catgtgtgca cttacatcta g                      1001
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<210> 186
<211> 1001
<212> DNA
<213> homo sapiens

<400> 186
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cccatatgag aaaactgaat tttaatttat actttgtatt ataaaagaaa gtccaaatgt 180
attatagatc tacatataaa aattaagttt tctaaaggaa aacacagaag aatatctgta 240
ggcgaagatt tcttagatag aataatcata aaatactaac aataaaagaa agttgggcta 300
cattaaaatt aagaatttct atttgtcaaa agacaacact ttgagagtga aaagacaagt 360
tatacggtga gagaagatat ttatagtaca tatatctcac aattgattag tattcataat 420
acctaaggaa ctcatacaca ttgataataa agatataaaa ctcaataaaa aaatgggcaa 480
aagattcaag taggcacttc rgaaaagaag cttttcaaag gcccattagc atttgaaaag 540
atgtttaaca tcattagtca ttagagaaat gaaatagggga gactgtccta ttacctgagt 600
gggcccattt acaagggtcc ttaaaaatgg tagcgggaac cagaagagag aacaagatga 660
aagtgagaag aattcagacc aaaactgctg gaggaagtca gccaaaagt cagtgaacga 720
aaaaaactca ggtggtctct agaagctgga aaaggcaaag aaacacattg tcccctagag 780
cctccagaaa ggagggtggc cccgataaca cctttatctt aacctagtga gattcttatt 840
ggacttctaa tctacagaac tgtaagatag taaatttgtg gtgttttaag ccactaaatt 900
tgtggcaact tgtcacacca gcaatggaaa aatccttcta tgacccagca attccactcc 960
taaatatata cccaacagaa aggcaaagat atatgcacca a                      1001
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<210> 187
<211> 1001
<212> DNA
<213> homo sapiens

<400> 187
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ctgagactca gaactaaagc agagaagtgt ttctagtgat ggaaactgca tggggcaaac 120
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agggacatat gggtcagagg aaaagagaac agtaaaaaga tgtcaaatct ttttgtctgc 180
agagataatg aggttttgga gagaagaaag aaggcctttg cctgtggctc tctggtgctc 240
tttaaataac aaccaagaaa taccttattc tttggagtgc ctctaataaa aattgttcct 300
ctgcatctgc gatgatctct cagaatgaaa ccttacacct tgtagtagaa acttagtgca 360
atggttttca tgacttgtaa ttttcctgtg ccaaatgaaa agcttcctgt tcagtggtcc 420
tgaattgaga caccatttct agtctgcagg aggcttgtag gatgtcttcc cctggctgct 480
agtgagctgt ggctcatgtt rtgatttttt tttaagcctc cagcattttt cgctttcact 540
ctgattgcat cgggcgaagt ggcttcagcc agtctagggt gaccagtggt gtaccctgga 600
tcccgctagc agtcaggagt accagagaga tacaagtcag tgaggtaaac caatccagct 660
gcaagtgcag tgtctgtgtg ggctccaggg gagcatggaa atgtcaccta ctcctgtggc 720
atctgcacca caccgtagca atgtgggaaa agcatgagca ataaattact tgccaatgaa 780
ctccagacgt ctccagccaa gtaagcattt cctgggactc taaggatggc gtccaagata 840
aaaacagaga aaacacataa aatacgcaga gcagacaaag gactacatca aaaaatataa 900
aacttcctca taaatcaata aaggaaaggc caagtcatga tagaaaacta gataatttac 960
agaagaaacc tggaaagcca ataataatgg aaaaaagctt a                      1001
```

```
<210> 188
<211> 1001
<212> DNA
<213> homo sapiens
```

```
<400> 188
aatgtcatca ggatccaatt tctctctctc ttcagcccct agtcatgctt tctctatgta 60
atttcatctt cagacagatt ttatccttat cacgtggtcc ccagattccc ctggctgaca 120
ttccacagct ccaggtccag cagaaggtga gactgtgctc tcccaccact caaccaagtc 180
ccgtgatgtg tctcgctaga ccaagcttaa tcacttccat tctcctgaac caatagctgt 240
ggccagtacc tgctcaattg tttgactggc aaagcctggg ccacgagtcc acttctggag 300
ccaggggtga ggaactgtca ccagcagtag atgctgatta ggaaaagaat accctcagtc 360
acactctgct tattcatctt cattcattca ttttgcagag atgaactgag gacttatttg 420
tgctagaaac tagagacaga atcccagata acttctgctc ttccttcaca atgtcactca 480
ggagtcatca gttctatgat maatttgttc atttccgccc cctcggcaga gtcagttatt 540
ccctccttga tgctcttgct cttcgcagga ttatgttgct atctccccat ctttctccct 600
aacttactgt gagctcctgg aggacaggta ttgtatctta tttatcttgg cctccccaga 660
taccaacagc aggcacagac aaagcattca caaacctttg ttgaataaat atgcgaatga 720
tgagttaatt atttaattag ttaattaatg catatgctcc taatcctgca gggatttta 780
caaactatca aggaaaataa atccgtaaat agctggaaca cagtgtgatc cacggagtga 840
cagccacatg agcaaaggct ggtgagtgca atggaaggta gcatgtgttc aacctgaaga 900
cagaattctt aaagttgtta aagatatcct ttgctatttc aaatctaaat catgctccct 960
atgacttcta ttcacctatt cttagttctt cattcttcaa c                      1001
```

```
<210> 189
<211> 1001
<212> DNA
<213> homo sapiens
```

```
<400> 189
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gagttactta tcacattctt gatgtctgga agacagacaa taggtggaaa tcagtaaaag 120
atgaacaatg aggttggagg aaggggacca aacatttatt cagtatttac tatgtgtcaa 180
aactgaaact gaatagaata ggtgatatca cccctactct acagatgaag aaaccaatac 240
```

```
cctgaatagg tttcccaagg aatcctgagt tacagagcaa tggagtcaag attgaacaag 300
ttctaactca aagtccttat gtttgtcatt atttgatgcc gtgaggttag tactggaggg 360
ttagatgagg aacaggacac caggcagaga gatgagaatt ggattctggg agtattcgag 420
tgtgggataa ctgagcctaa tcaagcaggt agccagagtg ggcacagaat ttcaggacca 480
ggcaccagct actagacaga rgctccatca tgacctaacc ttggcattat tgcaagattt 540
tacaagcttc ttatttatgg gaagagccac actctgaatt tggctatctt gaaggttaca 600
agtcaaagtg aatggcagta acctgcttta tggaaaccct gagtaggtgt agagcaagac 660
aagtttatcc ctggaatccc ttccatgatc ttatttgaag aagtattctt aggtaacaat 720
accccaatgg ttcccaaccc atgggagctt ctgaatagtt agtacacctg ggacccatcc 780
aagaccaact gagttgggtt tctaggtgtg gggccctggc atctgtgctc tctgaagttc 840
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aatatatgtt atttctctga gaggtaggac agagttacaa tgctgcagaa ttctaagggg 960
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```

<210> 190
<211> 1001
<212> DNA
<213> homo sapiens

<400> 190
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agtgtccttt ctgatggtta taggaatctt tatggaccta catccttttg ccctattaaa 120
tcgcctagaa cattgcttct caaaccttaa catgtacaaa aatcacctga tggttgtgtt 180
aaaatatgaa tcctgatttg gtagagttac tgcatttccc atcatctttt aggtgatgat 240
gagactgctg gtctgcggtc taccttttga gaagtcagag gactaaagtc aaagtcctta 300
gactgcctcc agttctactg ttcagatcca gtcccattga tttgagggct ggagtgttct 360
catataaaaa gaggtagaag atgaaaagta actgagattt gaaatcatat ctaggccact 420
gaaccctgaa ctaggcagtg aagccagacg gaccacgcca aatcaaagcc ctggaagttt 480
catgtagtca ttccagacat rcccctgagg ccaccagagc catttgttcc aaaatcactt 540
ggaagacaga aagcaatttg aaatcatgcc tgagccccag gcacccaggg ctgcccagtg 600
gggtcagctg cccctgattg aatggcactc catttctgtc ccccagaaac actgggatcc 660
ccagcctgtt tcttcacgaa ggttctcttt ttgtattgct tcagagtatt gcacaggata 720
ttagccactt ccttctctat aattcatcct tccactttgc catctggaat atttctcttt 780
tacaagtgcc taagttgtta cagtttgagg cagttgaatc ctaactttgc catttggggt 840
aatttattgt ttttaatgct ttcttccaaa aattcagatt ctgtggtttg aaacagaatc 900
cagccaagat ttttgcttcc tagttggaca tctggttgtc tgtcctttcc aggtcttctc 960
tgggtttatt tttcagcttc ccgcaagtga ctatcagctc a 1001
```

<210> 191
<211> 1001
<212> DNA
<213> homo sapiens

<400> 191
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aaagctcctt atctttaaaa tgttgcatca aatattgtaa acaaaactag gtgtgccaaa 60
caaaacatgt tcgaatgtca tttttttaaaa actcttggct accagctgga gctcaaacaa 120
acaatgacat gcagtgaatg ctcttatcct ttccaggtct ctaagaaaac ccaaagtccc 180
tgcctccaac cttcctcccc gacagatacc cacactacat cccctcgctc ctactggctc 240
cccagacaat gagctggaca atatgaccca agaatttcac tgccaaggta ttgctgccaa 300
ggttttcgag tttcaagtcc ctagtttaga gtgagtcatc tcaaattcaa ttagtggaga 360
```

gttcctctgg gttcagtcac cagtggcaga gggagaaatg actcagacgg tggagcatgc 420
agtgcctaat gggtccagca tgtggggggct tttgagattg ttgggcacgg tgctcatggt 480
gcccgagggg agtacaaagc ygggctggag gttgcaacat gctctcagct caactcattg 540
ttggctcttt tggactgaaa gatatttgag atatttgtat ttgacctcaa acatatggtg 600
gatctagcac ctcaaggata tatattatta taagcctgtt ggctcctatt ccagcctcgt 660
ttccttctgc cagcctgaac tgcacatttt gcattctggc attaccaaac tattgtaatt 720
ccccaggctc tttcttgcct ctatacctta gtggtgccat tgtttccctg gaatacctat 780
atgtgcttct gacaaactcc tttttgtgct ttaaagctcc aaacagacat cactactttt 840
gggaaaataa ctctaacacc cccccatttg ttaaacttgt attcttcctt tgtccatcta 900
taatttgaac ttacttttca cattgtataa aaaccatttg cttatctgct tgtctgccta 960
gttaaggaga agcctttaag gtcagaaagc ttgtaatatt c 1001

<210> 192
<211> 1001
<212> DNA
<213> homo sapiens

<400> 192
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tataagcata taaatataaa tctaattacc attttcaaca tgttccagac acaatgcata 120
tattggtctt atgaagtaga tatttatttt ctcataaatg aaacaaagac tcgggaagtt 180
atacaacaaa aataaatcct gataagaata gagaagagaa ggttcctatt gccagcctgg 240
ggaagtcctt gaaagcttta gggaagagca ggcagatgag tacagatgaa aggaagggga 300
gcattgaaac atgaatagat ggagaaaaag aaaaacattc catgcagtgt cgtgggtgcc 360
aggtctcctg ggagaggaca ttagatgccc agacttggac cagcaatgac attccattca 420
ctatgcattg aatgagcatc cattaaatac ataccatgac acaattatga tgggaaacgt 480
aagataatac atgtaacccc ygcctcagta tgtctactat atgttctgcc aaaatagaat 540
gagtaggtga ggtggaggtt gctgacctṭc atgcccaccc ttttattgca ttattttcta 600
ataaattcct gagcactgag cagatgaaat atgccaaaga aataatactt tgaggtccat 660
tcctctgtta ccaaaactgt catcagagtt tgtctcctca ttggtagctt cagaataggc 720
tttgcaaaca caaatgccta tagggccaaa aaggcccttg aatgttacta cacaagtgaa 780
acattctgga tataagtgca ggggcatcag aatgtaaaaa tcggggtgaa gactctggaa 840
acctagggag cacaccacct gtaccaggga tatccattct tcacttgcag tgggttattg 900
ccaggtcttt caatgcttta acagaatcag aaatgtggta tgtaatgtaa aagctcctta 960
tctttaaaat gttgcatcaa atattgtaaa caaaactagg t 1001

<210> 193
<211> 1001
<212> DNA
<213> homo sapiens

<400> 193
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tacgtccttc tctggttttg gtaacagggt ggatttactg gccttgtgga ataagttagg 120
gataaatccc tcctcttcaa tttttttggaa cagcttcagg aggattagtc ttagttcctt 180
gtacatttga tggagtttga ctgtgaatcc atctggtcct gggctttttca tcagctttgg 240
acaagaacaa attttccctt tttataagaa caccagtcat attagattaa gacccaccct 300
tatgacctca ctttaactta tctgcaatga ccctatttcc aaataagttt cattcacaaa 360
tactggagtt aaggactcta ataatatatt ttgtggggga cacaattcta cccataatac 420
agcccatgcc ttgctcccaa cttctggtta acatcagacc tgcacaaact ttccttggtt 480

```
aatagatttc ttgagccttc ygttttctga ctctaattta ggtctgtgtg ccttccaggc 540
acattcctca gtacttccta cctggagaag aataagggac tactgcagct tcctgcagga 600
gttctctcca gcaaagaaag gcctcaaaga catcttccta gagattattg tcagacagct 660
attgcatgga gaagcagcag agctgggagg accctcaggg gtcatatggc cattttacag 720
aggaatggac tgggtcccaa aacaattaag tcattcttgt ccaggtatgt gtcagaacca 780
ggctgccaac tcagtcttct catttgaagt ctggtacttt tctcattcca cttaagacaa 840
gctcagctct gtcctagaca ttataaggga atcaaaaaaa tatataatat ttcattgagt 900
taaaaatgca catatttcac atttttgaat ctccaaaata gagatgctat ttccatttga 960
tggcatgtct aatcggcagc attttctctt ttttagtaga a                     1001
```

```
<210> 194
<211> 1001
<212> DNA
<213> homo sapiens
```

```
<400> 194
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ccagttctca tgcctcagcc tcccaagcaa ccaagattac aggtgtgcac caccatgccc 120
ggctaatttt tgtattttta gtagagatgg gttttcacca tgttggccag gctggtctca 180
aactactgcc tcaggtgacc tgccctcttc ggcctcccaa agtgctggga ttacaggtgt 240
gagctaccgt gcccagccct cttgccactt ctatttcaac atcgtactgg aggctctagc 300
cagtacaact agacaagaaa gttaaataaa aaacatacac agtgtaaagg aagaaataaa 360
actagctctc tttcagatga tataatcttg taaacagatc ttgtagaatc ctaaagaacc 420
tactaaaatt attagaataa catgacaagt ttagtaagat tgtagggtat aagagcaata 480
tacaaaaatc aattgtattt rcatgtacta gcaatgaaca atctgaaaat gaaattaaga 540
aaatttcatt tataatagca ggaaaaagaa caagtaagct aaaatactta ggaattaatt 600
taacaaaata agtgaacaac tgtactttgg aaatgacaag acattgttga aagaaattaa 660
agaccaaata agtataaaga cacatcacat tctcagatca gaaggcttaa aattgtggag 720
atgacaaaac tgctcaaagt gattcatata ttcaatgcag tcactgttaa aactccagct 780
tgcatctttt cagaaatgga caagctgatt ctaaaattca tatgaaaatg caagggaaca 840
agaattgcca aagaatcttg aaaaataaca atgttggaga gctcacactt tctgatttta 900
aaacttacta caaagctacg ttaatcagaa gtgtggcact ggcataagga tagatttata 960
actcaaggga atagaattga gagccctgta gtaaaactct c                     1001
```

```
<210> 195
<211> 1001
<212> DNA
<213> homo sapiens
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<400> 195
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tgacatacct atgaatgcaa gatcggatta acatctgaat atcaattaat gaaatataca 120
tatcaataga ataaaaaaca aagaacataa ggtcatctca atagatgcag aaaaagcatt 180
tgacaaaaat ctaacaccac ttcatgataa aaacacctaa caaactagca atagaagggg 240
actttctcaa cctgatgagg gccatttaca aaaagctcac agccaacatc atacatactt 300
gtggaagact tagtgctttc cctctaaata ttaacaacaa gacaaagatg tcttctcttg 360
cctttttttt tttttttttt tttggagaca gggtcttgct ctctcaccct gtgagagagg 420
agtgcagtgg cgtgatctcg ctcactgcaa actgtgcct ctcaagttca accagttctc 480
atgcctcagc ctcccaagca rccaagatta caggtgtgca ccaccatgcc cggctaattt 540
ttgtattttt agtagagatg ggttttcacc atgttggcca ggctggtctc aaactactgc 600
```

```
ctcaggtgac ctgccctctt cggcctccca aagtgctggg attacaggtg tgagctaccg 660
tgcccagccc tcttgccact tctatttcaa catcgtactg gaggctctag ccagtacaac 720
tagacaagaa agttaaataa aaaacataca cagtgtaaag gaagaaataa aactagctct 780
ctttcagatg atataatctt gtaaacagat cttgtagaat cctaaagaac ctactaaaat 840
tattagaata acatgacaag tttagtaaga ttgtagggta taagagcaat atacaaaaat 900
caattgtatt tccatgtact agcaatgaac aatctgaaaa tgaaattaag aaaatttcat 960
ttataatagc aggaaaaaga acaagtaagc taaaatactt a              1001
```

<210> 196
<211> 516
<212> DNA
<213> homo sapiens

<400> 196
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ccttgttttg tcatatcacc agagttggtt ttctggtttc ttctcattag ggtagggtct 120
gtcagaggga aggtctaggg tttaaggctg ttgttcagat tctcttgtcc cacagagtgt 180
tcccttgatg tagtactccc cctctttttcc tagggrtgtg gcttcctgag agctgagctg 240
tagttcagct gattgttatc tctcttcttg atctagccac ccagcaattc taccaggctc 300
gggctggtac tgggggttgt ctgcacagag tcctgtgatg tcagccatct ggatctctca 360
gccgtggata ccagcacctg ttctggtggc aatggcaggg aagtgaaatg gactctctgg 420
agggccttag cttttggtttt ttaatgcact atttttgtac tgattggcct cctgctggga 480
ggcactttca agagagcctc agctatggta gtatgg                  516
```

<210> 197
<211> 1001
<212> DNA
<213> homo sapiens

<400> 197
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tttactaggt tataagaaca taaattataa aaccagagaa taattattga gttaattata 60
caaactatgc attaggtact cacttatcct attaaactct tttagcaaat gtaaaggttt 120
aggatcatta tgttcattta cagacagaaa gagagagacc tcaaaaatta catgatttac 180
agagctagaa agtgtaggat ttggtattct aactcagatt tatctgactc ctaaagttga 240
gggtcagcct tgctgcattc tcttgcctcc acacgaagct gtcagtgact gccaagagtt 300
tatattttta ctcatccctt ctagagggca tttgcatttt aataaagttc ttcaacactt 360
tagctcaacg gttatcaaag tacagtctag gggtctcctg ggccctaaaa acctttcagg 420
aagtctgcaa agtcgaaact atgttcttag taatacttag atgttatttg ccatcttcac 480
tgtgttaacg tttgcactaa wggtgaaaaa gcaatagtgg atctaactgc cagcctaaca 540
aatcagggta gtggcactca gctgttattg cattcatcaa catcatcctc atagggggga 600
aaaagtccat tttcctaaga atatttatgg tgaagcagta aatattatta attttattgt 660
atctctaccc ttgcatatac ttttaaatat attctgcaac aaaatgggac gcaaacataa 720
agcacttctg ctgcataaca aattttcaag ggaaagcact tgtgtgattc agctgtgagt 780
tgagctagcc actattgtca tggaacacca ttttttttca tgaaaaaatg actgacaggc 840
caactggtta ttcagacttg ggtatttggc agacattttc tcaaaaatga acaaagtgag 900
cctgtcgttt caaggaaagc gactgacagc atttgatgtc aatgataaaa tgtgagtgtt 960
caagcaaaaa ttagaatttt gaaaaattta tatctgccac a              1001
```

<210> 198
<211> 1001

<212> DNA
<213> homo sapiens

<400> 198
cagcagatac gtggataagg aatgtgtggt atatatactc agtggaatgt tattcagcca 60
taaaaataat gaaattctgt catttgcagc aacttgggtg aggctgggga cattatgttg 120
agtgaaataa aacagacaca gaaagacaaa tattagatat tctcactcat atgtgggaac 180
taaaaaagtt gagctcataa aagcagagag tagaattgtg gttaccagag tctgggaagg 240
gtactggggg atagggaaag gttggttaac aaggacaaaa ttactgttag agcaataagt 300
tctagtgttc tatagcacag cagggtgact atagttaaca ataatttatt gtttacttca 360
tagtaattag aagggagaat tttgaatgtg cccaacacaa agaaatgata aaattgattt 420
catcattaca cgtcatatac atgtatcaaa tatcacatgt gccccataaa tatgtacagt 480
tattgtttgt cagttaaaca yaaattttta aaaggtgttt ataaatgtcc taaattaaag 540
acacagcctt atcctacggg attttctgaa gctggcttcc ccattttctg ttctccatag 600
ttataggaca ggctggcagg ggcaagactc gctggggcca aagtagacgt gtatgttctt 660
gatgcgagct ttatatccca aacatattga tttttattcg ggagtttacc taaaccattt 720
ttagagttat ttctatgtgc acaagctaat gaatccaagg attcctgcct gctttgtaaa 780
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tttcctacaa gaaagaattt cttcacaagt acagatacgt gtttaaagag ccactcacac 960
atctcccttc tcatctcttt ggtgttctag gagaaatgga a 1001

<210> 199
<211> 1001
<212> DNA
<213> homo sapiens

<400> 199
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ttcaaatgaa attgtgatgt cattttccca gaaatatttt aggtttaaat gaaaggacac 120
gtgcctgaaa tgggtagaca agttatttcc tcatggggta ggagagaatc actgagctgc 180
atcccattgt aatggctggg attgaagttc ctctttggag gtagaggaga accaagtgct 240
gagaagaggc aacacagctt caaagacctg ccccaaatcc atcaaaaaca gttcttgctc 300
tgtcccctag gctggagtgc agtggcagga ttatagctca ctgcagcctc gacttcccag 360
gctcaagcaa tcctcccttg ggcggggccc caagtagcct cctgagtagc agggaccaga 420
gttggtaaaa tatgcagatg tggaacctca ggttatggag ggcctactgt acgtgtgtgt 480
gtgtgtgtgt gtgtgtgtat rtatagttaa catttgcagt gcacagatat tttcatcccc 540
ttccctgaag atgaggaggt gaagatggct acacaacagt ctcatggcag gttagctggt 600
ctaaggagaa ggtgctagaa ggaagaggcc ttctgaagct tgtgactcaa gcactcccca 660
ctgctctgct tgtatggtgt taataaatgc tatatttcgc tcacaaaata tatacagaat 720
aagagctatg tttcatataa aaatgactct tcttctacag tctcactatg tgttcctgtg 780
agtacaagga gtgagggctt ggctctcttt accaaggcac tgtctgtctc cagctgtatt 840
cacagcacac atgtaggtgc acttatgtac agatacgccc tgtctcactg acacaggacc 900
cagggtcagt tttcattttg gtgaatgata atttctagat taggtcattt tcatatggag 960
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<210> 200
<211> 1001
<212> DNA
<213> homo sapiens

<400> 200

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gaccccgtcc catcagttat ggctagatct gggtgggggcc caacagcatt caacatagcg 120
acccagattt gccttctcaa tacaaccatg ggtagggagg tccctctagg agacatgtct 180
catataaatt attttttcct ttgctctttc ccataggatt tgataataaa gtagtgcaac 240
tctaaaggga ccaggagtcc agagaggtac gtttgagtcc ctctgtctta ttatgtctga 300
tgtccagttt gcagcttttt aaattctgcc acatatgagt tctattagaa tagactctat 360
gaatcctgga atttaacctt ggcctttgtt gtccatgact cagagaatac actcatgtat 420
ctcagtgctt gaaaggagaa tgggttataa attctggacc ccttacttta gagatgagga 480
aacagagact ttagaaatgg rttgattaaa aattttgtaa gtatgtaaag cagagacct 540
acgaaactca cctctcagta ctccaaatac agcactcctc acttcactgc actgcttccc 600
tgggaggaag aggcaactta ggagccagtg aaggtggaca cgcggagctc aaaagatagc 660
aggtgggctc atgttgacac caccaacccc catgctcacc acctgagaat tcaacagcca 720
gatttctgct gccaggttgg ctgctggcat ctgcatccag ctgacctgct tctaagattg 780
aatgcaagtt tcactcagcc caactctcta cccatcccag tgaccagcat tggctcagaa 840
tcttccattc cagcccttgt ttctcaaagg gaaagaggtc agcatcttgg cacatctctt 900
taaagtcatg ttcacatgct gcagtaggct ctctggggag ctggataata ttctgagctt 960
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<210> 201
<211> 1001
<212> DNA
<213> homo sapiens

<400> 201

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gaaatcttgg gcaccaatat ctgtcttgga gagtgtcttc tctccatcta tccaatatcg 120
tctctttta aaaaaaaaaa aaaaccgttt ttttggccgg gcgcagtgaa tcacacctgt 180
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ccaggtggaa gctgcaaggc tttttacggc ctattttga aaaccatgct ctgttatttc 960
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```

<210> 202
<211> 1001
<212> DNA
<213> homo sapiens

<400> 202

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cccatatggc agggcaagtg ggagccataa tgtgggttca tgaaaggagc acggataatg 180
gtcacttcac agcctcactt tcattactga gaaggtggat ggaggagaat taccatgcat 240
ctcattaaat caatatttta tttcctccct gctcccagct gccctcccag ctttgatctc 300
tttgcctctg gggcagtgct ggacaggtga ctttcatgat gcaaatcagg gtcggcgggc 360
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cagccccagg ttctctgtaa ccttaggcga ggtggagcct gtggaaggac tgttcttttg 480
tctttgtgaa cagcaggagc ygttaaacta cctgagttcc agtaatgtac accatgtgaa 540
gtgttggagg agctagacag gagagggcat cttgtttaac agatatctat ttatcttatt 600
caaatatagg ttaactagct aagtttagaa caaggccaag gcattgagaa ataatagatt 660
ctccacctgt catactgggg gcttcttttc ttgactctga taaaagctat gcatactctc 720
cctttcccca atatttgttt ttccttcttt tgccatcgct attgatgcct agccatggtt 780
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tacagggaga aaaaggaaga tagagggagg agaggcaggg agagacataa atgtcttcat 960
ctcctgatga ccaggaatct gatgagtaac gcttggtgct g                    1001
```

<210> 203
<211> 2001
<212> DNA
<213> homo sapiens

<400> 203
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gacgtcatct tcggcaggag tttcagacgg agaattcccc caagacctcg aaatcaatat 180
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caccttcaac ccattcattg aagcccagct cgagtatggt aaacttcaga gcacttcagc 360
aatagaaatt ctcaaagtta gcaaagtcat tttccgtttg tcctctgtgg cttcttcagt 420
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ttgcatttct ggagcttaca gggagaaaaa ggaagataga gggaggagag gcaggagag 1500
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```

```
atctgatgct cttctgcttc atatttcaga ctctcagagt agataatttt acaggctgcc 1620
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cttattacat tacagaattg taaaaacctt gttagtgcaa gtaattattc atagactagc 1740
ttccggaaac ctctgtccta gactctctac tcactaggtt tctatttctg tcttgttcca 1800
gttggacttt agttggtttg tttatgtaat aaggaaagga gatcccctca aattgcttca 1860
aataaaagaa tgctgtttta aagatagata tggctctgtt gagggctaga aatcttgggc 1920
accaatatct gtcttggaga gtgtcttctc tccatctatc caatatcgtc tctttttaaa 1980
aaaaaaaaaa aaccgttttt t                                          2001
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<210> 204
<211> 2001
<212> DNA
<213> homo sapiens

<400> 204
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agctccccag ggcccggcct ctgatgaggg tcagtgacgt catcttcggc aggagtttca 180
gacggagaat tcccccaaga cctcgaaatc aatatgtctc tgccccgctt tgcctttcca 240
gccagaaaat atgcccatta cttgactttt gtctgctgct ttaagatctc agcttgttac 300
caagcttgac atgccttctt attctcatct ccgcccacct tcaacccatt cattgaagcc 360
cagctcgagt atggtaaact tcagagcact tcagcaatag aaattctcaa agttagcaaa 420
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gagtttctgc atgtaattat ttttgaactg ggactgaaac agttcagaac acacctcctt 600
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tctcagtctt ttccctcctg tttttctttt tctgggaaag actgcatgag acccatatgg 720
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aaaaaggaag atagagggag gagaggcagg gagagacata aatgtcttca tctcctgatg 1560
accaggaatc tgatgagtaa cgcttggtgc tggggatctg atgctcttct gcttcatatt 1620
tcagactctc agagtagata attttacagg ctgcctttat tagtgtgaat agagttaggt 1680
tcatgaacat aaattcttac attgttttta tatttcttat tacattacag aattgtaaaa 1740
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tctactcact aggtttctat ttctgtcttg ttccagttgg actttagttg gtttgtttat 1860
gtaataagga aaggagatcc cctcaaattg cttcaaataa aagaatgctg ttttaaagat 1920
agatatggct ctgttgaggg ctagaaatct tgggcaccaa tatctgtctt ggagagtgtc 1980
ttctctccat ctatccaata t                                          2001
```

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<210> 205
<211> 304
<212> DNA
<213> homo sapiens

<400> 205
gacctccagc aagtcgcttc acttctctga gctgttttca gacgacccct tggaagatcg 60
tggacttaag taaagaatat gagtagagtg ctcagctcag tgcaaaaatt aaaaaaaaaa 120
aagtgtcagg agccttatcc gtccttggat cttaacagtg aatgagtttc agtgtttytt 180
tccaggggcc ctgctggccg agcccctttc cttccctggt tccttctctc tccctcctct 240
actgcctcct ccctccaggc tctcggtcgc tccagcaaag ttcccaactt agtcgacatg 300
acgc                                                              304

<210> 206
<211> 377
<212> DNA
<213> homo sapiens

<220>
<221> misc_feature
<222> 58, 203, 254
<223> n = A,T,C or G

<400> 206
gatcttgccg gaaatagata cccttcccct gcttcccgct gtgaagaagc tgtttctntc 60
tctctctctc tctctctctc tctctctctg tgtgtgtgtg tgtgtgtgtg tgtgtagata 120
gaaagagaag agggggagat taattgagag agagaagggg agaatgaaca ttggaatcca 180
atgaggaaat gtccttgtaa gtncctatcc catccgtaga gttgggcgag gtaaagtagg 240
ttcctgtgct tttnaaaggc ctgatggtct gaatctaagg agtcttccac agaagacctg 300
tcatgagaag ctgtcgggaa gtccagattt aagaagctca tgcataatca tgctcgcccc 360
ttggtgaagc tttctgg                                                377

<210> 207
<211> 360
<212> DNA
<213> homo sapiens

<220>
<221> misc_feature
<222> 33, 36, 72, 281, 311
<223> n = A,T,C or G

<400> 207
gatcaccagg gaatctagat ggaatccata gtnctnccct gcaagaatgc tgcaattctg 60
taccgtggag gngccaacag aatcaccagg ctctgtgact cagtcacaac accctgacct 120
gcccctgtcc attctccata tcatacccag agtggtcttt tcaaagcaca gctttgacca 180
attctctgtc tttcacacat acacacacac acacacacac acacacatgc gtgcatgcat 240
gcctgaaata gtatagtatt gctcttaaga taaacattaa ngttcctacc atggtacaga 300
aaatatatgt ngttaggccc cgtggctctt tcttttccag actcctctta ccctttttgtg 360
```

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<210> 208
<211> 370
<212> DNA
<213> homo sapiens

<220>
<221> misc_feature
<222> 97, 267, 274, 347
<223> n = A,T,C or G

<400> 208
tattgaaggc acaagagtgt gaatgtggag ccctttgcct tcatccacaa ttgaaaatat 60
gttatttgtg ttaggtaact acctctgttc atcctanact ggctctaact tggagatgac 120
gttgaattct tttcaggatg gacttggtgc cgtgtgtgtg tgtgtgtgtg tgtgtgtgtg 180
tgtgtgtgtg tgtgtatgta tgtgtatgta aaacagagaa agatagtggt ccagaggcca 240
acacacctgg aatctatttg tgagggnccc tgcntcagtc cacgaattgg gccattcatt 300
tatttctcag taagtgaaca tctgggattc agtttgaaac gccaatnagt ttggatggga 360
tttcaaagct                                                       370

<210> 209
<211> 278
<212> DNA
<213> homo sapiens

<400> 209
agctatgatc atgccactgc actccagcct ggctgataga atgagattct gactcagaaa 60
aatataaaca cacacacaca cacacacaca cacacacaca cacacacaca cacacaactt 120
tctgtctgcc cccttgctct tcctgtccca tctctgcctt tcttctttcc tctctttgtc 180
aaatctcctt cgtctgcctc acaaaggcca gtgagcccca gccgcagacc agggaagcca 240
gcaaattagg aattttcttc acaaagtttt gagtagct                        278

<210> 210
<211> 144
<212> DNA
<213> homo sapiens

<400> 210
acttggcacc aaccaaagac ctgaaaaagt attttagtca ctcacattca gccctgcctc 60
agaccccaag catcatcatc atcatcatca tcatcatcat catcatcatc gctattattt 120
atggagctgc cattacatgc tagg                                       144

<210> 211
<211> 239
<212> DNA
<213> homo sapiens

<400> 211
aatgcaggaa tccaggaaga attttaagtg gcatgatcca attctcattt tagaaatact 60
accctggagg aagaagaaga gaatgaacag caagaggaac attatctttc aataagctat 120
```

```
gtgtattatt ggatggagat gtgtgtgtgt gtgtgtgtgt gtgtgtgtgt gtgtgtgtgt 180
gtgtatctat ctgtctatat gtatgtgtat gtatatttaa aatgtgttgg ccaccagtg  239
```

<210> 212
<211> 245
<212> DNA
<213> homo sapiens

<400> 212
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atttgagcca gtgtgcaagg aagacagtgt ctgacatatc aaaagccctc aataaatggt 60
aaatgttcat attatcacca ccaccaccac caccaatgtt tccacacact ccaggacctt 120
ttaaccaggt gacttgcaga catgcccctg tgccggccgt gcccctgcca ggctccctgg 180
catcatgttg acttctgtat tgctagaaat atattgtgtt tagtcacatg tttgcaaatg 240
acaga                                                             245
```

<210> 213
<211> 148
<212> DNA
<213> homo sapiens

<400> 213
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gccatagtcc gacaaggtca aatatccttg tcatctgatt cctgagcaaa ctgttttat 60
ttttccacta aatcacatca tcttaaaaca aaacaaaaca aaacaaaaca aaacaaaaac 120
aaaaactcta ctgctggcaa atgagaaa                                    148
```

<210> 214
<211> 171
<212> DNA
<213> homo sapiens

<400> 214
```
ccataatcca cccagttgct ccagccaaaa acctaagact ctttctttc tgatttctct 60
cttcacacac acacacacac acacacacac acacacacac acatgttgtc ctgcagctag 120
ccatcaacaa gccaggttga atctaactcc ttacctgatc cctcaaggtc g          171
```

<210> 215
<211> 126
<212> DNA
<213> homo sapiens

<400> 215
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ctgctccatt actccattca aagtttgtac atccctatgt gaggtaaggg tgtgtgtgtg 60
tgtgtgtgtg tgtgtgtatg tgagtgaaat agaatgggat gggaaattgt tcctcgatcc 120
cagtct                                                            126
```

<210> 216
<211> 379
<212> DNA
<213> homo sapiens

<400> 216
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actgcatata ggctctggga taaattggga aacatgaaac acatgtcagt gtgtgcactt 120
acgaatgagt tctgaattag gaatatatat ttctatatgt ctatacacac acacacacac 180
acacacacac acacacagag actatataca taaatttatt ttaaaagggc actttgctgg 240
aacaagaaca ggcaagggtt ggctggtatt ccaatcatgc agtggtctcg cttgccttct 300
ctaggacaca cctgcacttt gtcaggtctc ctcttgctgt gtgccccatc tctctggctc 360
agtcgcccta gctgacttt 379

<210> 217
<211> 252
<212> DNA
<213> homo sapiens

<400> 217
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catgtacatt attatctgct gtgtgtgtgt gtgtgtgtgt gtgtgtgtgt gtgtgtgcac 120
attcacatgc acgcataaat atgtgctttc ttccacccta gatatgtttt cttggagtct 180
gagccctagt gtactaatat atacccttgt acaatcttct ggggctcccc agagacccat 240
gcccttgact tt 252

<210> 218
<211> 387
<212> DNA
<213> homo sapiens

<400> 218
aaacatgtaa actggatggg agagtctaat acactttacc tttctttctt tctttctttt 60
ttttgagaca gaattttgct ctcattgccc aggctagagt gcaatggtgt gatcttggct 120
cactgcaacc tccgcctccc aggttcaagt gattctccta tctcagcctc ccaagtagct 180
gggattacag acacccacca ccatgcccag ctaatttttt tgtatttta gtagagatgg 240
gtttcaccgt gttggccagg ctggtctcaa actcctgacc tcaggtgatc caaccgcctc 300
agcctcccaa agtgctggga ttacaggcgt gagccactgc gcccagccaa cagtctacct 360
ttctgaagaa ccatgaggac caatggt 387

<210> 219
<211> 211
<212> DNA
<213> homo sapiens

<400> 219
aagagaaagg cgggaaacag aacagcctcc cataaatcat tatttgtctg gggaaaaagt 60
ctctgacaga tatgtggggt accactgtgt gtgtgtgtat gtgtgtgtgt gtgtgtgtgt 120
gtgttgtggg gtgggggggtg tggtttgatt tccaaggcag aatttcactg tctgatcctg 180
tctggagggc agaatgcttg tgctctccac a 211

<210> 220
<211> 414
<212> DNA
<213> homo sapiens

<400> 220
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gtttgtttgt ttgtttgttt gtttgagatg gagtcttgct ctgtcaccca ggctggagta 120
caatggtgcg atcttggctc actgcaacct ctacctcctg ggttcaagtg attctcctgc 180
ctcagcctcc caagtagctg ggactacagg tgtgtgtgcc accacaccca gctaatcttt 240
gtatttttag tagagacagg gtttcaccgt gttgaccaag ctggtcttga gctcctgact 300
tcagatgatt caccggcctt ggcctcccaa agggctggga ttacagccat gagccgctgc 360
gcgtggccta tttcaaacag ttctagacac tggaagttcc agatcaggat gcca   414

<210> 221
<211> 192
<212> DNA
<213> homo sapiens

<400> 221
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gtacgtgtgt gtgtgtgtgt gtgtgtgtgt atatatagtt aacatttgca gtgcacagat 120
attttcatcc ccttccctga agatgaggag gtgaagatgg ctacacaaca gtctcatggc 180
aggttagctg gt   192

<210> 222
<211> 390
<212> DNA
<213> homo sapiens

<400> 222
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tattttccca ggtttattga tatataattg aggaattgta taaatgtagg ttgtaaaaca 120
tgatgttttt atatgtatac attgtgaagt gattaccaca atcaagttaa ttaacaccta 180
tcatctcatt cattaccttt gtgtgtgtgt gtgtgtgtgt gtgtgtatgt agaacacttg 240
agatctactc ttttagcaaa tttcaagtat acaatacatt attattcata tctcttgttt 300
tattgtcctc ttttcccttt gtggctattt tcatataaac ataaaattgt gtagaagcct 360
ggagaatcat ctaacccagg caggcaaata   390

<210> 223
<211> 167
<212> DNA
<213> homo sapiens

<400> 223
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agaatgtgtg tgtgtgtgtg tgtgtgtgtg tgtgtgtgtg tgtgtgtgtg tgtgtgtatg 120
ggtggatatg aatacatttc aggagagcac aacaggaggg tggtctt   167

<210> 224
<211> 152
<212> DNA
<213> homo sapiens

<400> 224
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tgaatgaggt attattatta ttattattat tattattgtt atttctaaag taagattttc 120
tggattagcc ccacagagga gagtcagagg ct   152

<210> 225
<211> 133
<212> DNA
<213> homo sapiens

<400> 225
tcagctcttt gtgcttggag agttgtgtgt gtgtgtgtgt gtgtgtgtga gagagagaga 60
gagagagaga gagagaagag ggggaaagag agagaaaatc tttaaatttt aattggtctg 120
caatggaaga ttt   133

<210> 226
<211> 245
<212> DNA
<213> homo sapiens

<400> 226
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tcataaagct ttgagatatc aagagtgaaa acataaccaa cctgcctgcc tgcctgcctg 120
cctgcctgcc ttccttccca caaaacattc tgtattgtgc aagcttctct gtaataccag 180
gcaggcagac ctcaaagttt ttgcgaggca ttttatgact tttatccttc tccctcatcc 240
actca   245

<210> 227
<211> 184
<212> DNA
<213> homo sapiens

<400> 227
catagacgag cctggagtgc actgtgttaa gtgaaataaa ccagacaaag aaagaaaaag 60
attgcattgt ttcaagtata tgtggaatct aaaaacaaac aaacaaacaa aaacccaact 120
gtacagaaat agagaacaaa acagtgatta ccaggcaggg gatagctagg gaggagatgg 180
gaga   184

<210> 228
<211> 154
<212> DNA
<213> homo sapiens

<400> 228
actgctcctc tccctcatca tcatcacggc ccaagagtga tgaataagga gagagagaga 60
gagagagaga gagagaagaa tttatttgac taagtacgct ttacattttt actcattggc 120
tttagtccat ctcttaggtc aaacatccca tgcc   154

<210> 229
<211> 255

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<212> DNA
<213> homo sapiens

<400> 229
tgatgtggtg tggtgtggta tggggggtgt gtgtgtgtgt gtgtgtgtgt gtgtgtgtgt 60
gtgtgtgttg tatgaaattt tccaattttt aaaacagagg aggattgaaa aaacacatat 120
atgtggcatg acgcaaaatg ctgcaataag gattccatcc tcaggctatc aaatgggcac 180
ctctgacctg ttgtgtactg aatagttcag tgtttcttga caagatgatg tactcagaag 240
gccctgaatg tcaag                                                  255

<210> 230
<211> 251
<212> DNA
<213> homo sapiens

<400> 230
aagctcgggt acttcctcct acacattacc ttgttggaat gtgtgtgtgt gtgtgtgtgt 60
gtgtgtgtgt gtgtgtgtgt gtgtcaggat cttgctctgt ctcccaggct ggaatgcagc 120
ggtgcaatca cagctcacag cagcctcgac ctcccaggct caagtgatcc tcccacctca 180
gcctcctgca tagctaggac tacaggcgtg caccaccaca ctcagctacc ttgttggatt 240
taattggcac c                                                     251

<210> 231
<211> 335
<212> DNA
<213> homo sapiens

<400> 231
tttaaaggaa gccagtcagg attcctggcc atgtcctaca cacacacaca cacacacaca 60
cacacacaca cacacacaca cacacacaca aagtgggatg aggggtagaa agtgtggtgg 120
aggaccaagg agcaccacaa atctggtaga tttgagcaaa atgaggctga agagaattga 180
atcaggctaa ttaaccaggc gttggcaata gtgattattt ttcaaggaga ggtaagtgac 240
agaaatcccc acttccaggc ccaattacca tgtcatcaag cgctaggctc tgcctcctgg 300
atttctgtgc ttggcgtaaa gggctgcagg agttg                           335

<210> 232
<211> 230
<212> DNA
<213> homo sapiens

<400> 232
ggcagaggca gagtgagcta cacacacaca cacacacaca tacacacaca cacaccctta 60
cacaccctta aatgttcctt attaattata ctggcttgca ttgaactgag gtgtaagtgg 120
tcgatttgga ctcctttcct aaaagaaggg tttgagaggg gaggagtgag agagatggag 180
ggtactgggt cccaacccgc aggaaggaga gaagcaggac atgggaagag             230

<210> 233
<211> 137
<212> DNA
<213> homo sapiens
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<400> 233
caatggtggg ccaaagacgc agggaataat gaagggagaa agaaaagaaa ggaagatgga 60
ggaaaacgag gcaactggaa gaaggaagga aggaaagaag gaagggatgg aggggatgaa 120
gagaagggag agaggga   137

<210> 234
<211> 265
<212> DNA
<213> homo sapiens

<400> 234
gtctgcaggc cagaactcac cggtgggcta ccagtttgca agttcgtctc tgctgttccc 60
agtaaagagc tagttgtacg tttttgtttgt ttgtttgttt gtttgttttt gagcatggag 120
ctgaactgag caaaacaggg gcagggagtc ctcctggtgc aagggatgaa ggaaaagaga 180
ccccatgccc aatactcctc tttacatgcc ctcaccatga ccacatccaa ccacccgggt 240
tgcccctctg tttggcccat tcttc   265

<210> 235
<211> 370
<212> DNA
<213> homo sapiens

<400> 235
ttcgagttgt cccacctttc cctactaaac cagtgtatca atgtgcatct tacatgtatt 60
gactgatgtc ttatgtctcc ctaaaatgta taaaaccaaa ctatagcttg actactctgg 120
gcacatgttc ttaggatctc ccggggctgt ggcactccta tttggctcag aataaatctc 180
ttcaaatatt ttacagagtt tgactcttct tgttgacaac ttccagttct ctctcattct 240
ctctctgtca ctctctctct ctctctctct ctctctctca cacacacaca cagacacaca 300
cacaacacac acatacataa gccaactcaa tcatcgttat atctgtaccc tgagaggcta 360
atcccagagg   370

<210> 236
<211> 1523
<212> PRT
<213> homo sapiens

<400> 236
Met Ala Pro Gly Trp Ala Gly Val Gly Ala Ala Val Arg Ala Arg Leu
1   5   10   15
Ala Leu Ala Leu Ala Leu Ala Ser Val Leu Ser Gly Pro Pro Ala Val
            20   25   30
Ala Cys Pro Thr Lys Cys Thr Cys Ser Ala Ala Ser Val Asp Cys His
            35   40   45
Gly Leu Gly Leu Arg Ala Val Pro Arg Gly Ile Pro Arg Asn Ala Glu
        50   55   60
Arg Leu Asp Leu Asp Arg Asn Asn Ile Thr Arg Ile Thr Lys Met Asp
65   70   75   80
Phe Ala Gly Leu Lys Asn Leu Arg Val Leu His Leu Glu Asp Asn Gln
                85   90   95

```
Val Ser Val Ile Glu Arg Gly Ala Phe Gln Asp Leu Lys Gln Leu Glu
            100                 105                 110
Arg Leu Arg Leu Asn Lys Asn Lys Leu Gln Val Leu Pro Glu Leu Leu
            115                 120                 125
Phe Gln Ser Thr Pro Lys Leu Thr Arg Leu Asp Leu Ser Glu Asn Gln
            130                 135                 140
Ile Gln Gly Ile Pro Arg Lys Ala Phe Arg Gly Ile Thr Asp Val Lys
145                 150                 155                 160
Asn Leu Gln Leu Asp Asn Asn His Ile Ser Cys Ile Glu Asp Gly Ala
            165                 170                 175
Phe Arg Ala Leu Arg Asp Leu Glu Ile Leu Thr Leu Asn Asn Asn Asn
            180                 185                 190
Ile Ser Arg Ile Leu Val Thr Ser Phe Asn His Met Pro Lys Ile Arg
            195                 200                 205
Thr Leu Arg Leu His Ser Asn His Leu Tyr Cys Asp Cys His Leu Ala
            210                 215                 220
Trp Leu Ser Asp Trp Leu Arg Gln Arg Arg Thr Val Gly Gln Phe Thr
225                 230                 235                 240
Leu Cys Met Ala Pro Val His Leu Arg Gly Phe Asn Val Ala Asp Val
            245                 250                 255
Gln Lys Lys Glu Tyr Val Cys Pro Ala Pro His Ser Glu Pro Pro Ser
            260                 265                 270
Cys Asn Ala Asn Ser Ile Ser Cys Pro Ser Pro Cys Thr Cys Ser Asn
            275                 280                 285
Asn Ile Val Asp Cys Arg Gly Lys Gly Leu Met Glu Ile Pro Ala Asn
            290                 295                 300
Leu Pro Glu Gly Ile Val Glu Ile Arg Leu Glu Gln Asn Ser Ile Lys
305                 310                 315                 320
Ala Ile Pro Ala Gly Ala Phe Thr Gln Tyr Lys Lys Leu Lys Arg Ile
            325                 330                 335
Asp Ile Ser Lys Asn Gln Ile Ser Asp Ile Ala Pro Asp Ala Phe Gln
            340                 345                 350
Gly Leu Lys Ser Leu Thr Ser Leu Val Leu Tyr Gly Asn Lys Ile Thr
            355                 360                 365
Glu Ile Ala Lys Gly Leu Phe Asp Gly Leu Val Ser Leu Gln Leu Leu
            370                 375                 380
Leu Leu Asn Ala Asn Lys Ile Asn Cys Leu Arg Val Asn Thr Phe Gln
385                 390                 395                 400
Asp Leu Gln Asn Leu Asn Leu Leu Ser Leu Tyr Asp Asn Lys Leu Gln
            405                 410                 415
Thr Ile Ser Lys Gly Leu Phe Ala Pro Leu Gln Ser Ile Gln Thr Leu
            420                 425                 430
His Leu Ala Gln Asn Pro Phe Val Cys Asp Cys His Leu Lys Trp Leu
            435                 440                 445
Ala Asp Tyr Leu Gln Asp Asn Pro Ile Glu Thr Ser Gly Ala Arg Cys
            450                 455                 460
Ser Ser Pro Arg Arg Leu Ala Asn Lys Arg Ile Ser Gln Ile Lys Ser
465                 470                 475                 480
Lys Lys Phe Arg Cys Ser Gly Ser Glu Asp Tyr Arg Ser Arg Phe Ser
            485                 490                 495
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Ser Glu Cys Phe Met Asp Leu Val Cys Pro Glu Lys Cys Arg Cys Glu
            500             505             510
Gly Thr Ile Val Asp Cys Ser Asn Gln Lys Leu Val Arg Ile Pro Ser
            515             520             525
His Leu Pro Glu Tyr Val Thr Asp Leu Arg Leu Asn Asp Asn Glu Val
            530             535             540
Ser Val Leu Glu Ala Thr Gly Ile Phe Lys Lys Leu Pro Asn Leu Arg
545             550             555             560
Lys Ile Asn Leu Ser Asn Asn Lys Ile Lys Glu Val Arg Glu Gly Ala
            565             570             575
Phe Asp Gly Ala Ala Ser Val Gln Glu Leu Met Leu Thr Gly Asn Gln
            580             585             590
Leu Glu Thr Val His Gly Arg Val Phe Arg Gly Leu Ser Gly Leu Lys
            595             600             605
Thr Leu Met Leu Arg Ser Asn Leu Ile Gly Cys Val Ser Asn Asp Thr
            610             615             620
Phe Ala Gly Leu Ser Ser Val Arg Leu Leu Ser Leu Tyr Asp Asn Arg
625             630             635             640
Ile Thr Thr Ile Thr Pro Gly Ala Phe Thr Thr Leu Val Ser Leu Ser
            645             650             655
Thr Ile Asn Leu Leu Ser Asn Pro Phe Asn Cys Asn Cys His Leu Ala
            660             665             670
Trp Leu Gly Lys Trp Leu Arg Lys Arg Arg Ile Val Ser Gly Asn Pro
            675             680             685
Arg Cys Gln Lys Pro Phe Phe Leu Lys Glu Ile Pro Ile Gln Asp Val
            690             695             700
Ala Ile Gln Asp Phe Thr Cys Asp Gly Asn Glu Glu Ser Ser Cys Gln
705             710             715             720
Leu Ser Pro Arg Cys Pro Glu Gln Cys Thr Cys Met Glu Thr Val Val
            725             730             735
Arg Cys Ser Asn Lys Gly Leu Arg Ala Leu Pro Arg Gly Met Pro Lys
            740             745             750
Asp Val Thr Glu Leu Tyr Leu Glu Gly Asn His Leu Thr Ala Val Pro
            755             760             765
Arg Glu Leu Ser Ala Leu Arg His Leu Thr Leu Ile Asp Leu Ser Asn
            770             775             780
Asn Ser Ile Ser Met Leu Thr Asn Tyr Thr Phe Ser Asn Met Ser His
785             790             795             800
Leu Ser Thr Leu Ile Leu Ser Tyr Asn Arg Leu Arg Cys Ile Pro Val
            805             810             815
His Ala Phe Asn Gly Leu Arg Ser Leu Arg Val Leu Thr Leu His Gly
            820             825             830
Asn Asp Ile Ser Ser Val Pro Glu Gly Ser Phe Asn Asp Leu Thr Ser
            835             840             845
Leu Ser His Leu Ala Leu Gly Thr Asn Pro Leu His Cys Asp Cys Ser
            850             855             860
Leu Arg Trp Leu Ser Glu Trp Val Lys Ala Gly Tyr Lys Glu Pro Gly
865             870             875             880
Ile Ala Arg Cys Ser Ser Pro Glu Pro Met Ala Asp Arg Leu Leu Leu
            885             890             895
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Thr Thr Pro Thr His Arg Phe Gln Cys Lys Gly Pro Val Asp Ile Asn
            900   905   910
Ile Val Ala Lys Cys Asn Ala Cys Leu Ser Ser Pro Cys Lys Asn Asn
            915   920   925
Gly Thr Cys Thr Gln Asp Pro Val Glu Leu Tyr Arg Cys Ala Cys Pro
    930   935   940
Tyr Ser Tyr Lys Gly Lys Asp Cys Thr Val Pro Ile Asn Thr Cys Ile
945   950   955   960
Gln Asn Pro Cys Gln His Gly Gly Thr Cys His Leu Ser Asp Ser His
            965   970   975
Lys Asp Gly Phe Ser Cys Ser Cys Pro Leu Gly Phe Glu Gly Gln Arg
            980   985   990
Cys Glu Ile Asn Pro Asp Asp Cys Glu Asp Asn Asp Cys Glu Asn Asn
    995   1000   1005
Ala Thr Cys Val Asp Gly Ile Asn Asn Tyr Val Cys Ile Cys Pro Pro
    1010   1015   1020
Asn Tyr Thr Gly Glu Leu Cys Asp Glu Val Ile Asp His Cys Val Pro
1025   1030   1035   1040
Glu Leu Asn Leu Cys Gln His Glu Ala Lys Cys Ile Pro Leu Asp Lys
            1045   1050   1055
Gly Phe Ser Cys Glu Cys Val Pro Gly Tyr Ser Gly Lys Leu Cys Glu
            1060   1065   1070
Thr Asp Asn Asp Asp Cys Val Ala His Lys Cys Arg His Gly Ala Gln
            1075   1080   1085
Cys Val Asp Thr Ile Asn Gly Tyr Thr Cys Thr Cys Pro Gln Gly Phe
    1090   1095   1100
Ser Gly Pro Phe Cys Glu His Pro Pro Pro Met Val Leu Leu Gln Thr
1105   1110   1115   1120
Ser Pro Cys Asp Gln Tyr Glu Cys Gln Asn Gly Ala Gln Cys Ile Val
            1125   1130   1135
Val Gln Gln Glu Pro Thr Cys Arg Cys Pro Pro Gly Phe Ala Gly Pro
            1140   1145   1150
Arg Cys Glu Lys Leu Ile Thr Val Asn Phe Val Gly Lys Asp Ser Tyr
            1155   1160   1165
Val Glu Leu Ala Ser Ala Lys Val Arg Pro Gln Ala Asn Ile Ser Leu
    1170   1175   1180
Gln Val Ala Thr Asp Lys Asp Asn Gly Ile Leu Leu Tyr Lys Gly Asp
1185   1190   1195   1200
Asn Asp Pro Leu Ala Leu Glu Leu Tyr Gln Gly His Val Arg Leu Val
            1205   1210   1215
Tyr Asp Ser Leu Ser Ser Pro Pro Thr Thr Val Tyr Ser Val Glu Thr
            1220   1225   1230
Val Asn Asp Gly Gln Phe His Ser Val Glu Leu Val Thr Leu Asn Gln
            1235   1240   1245
Thr Leu Asn Leu Val Val Asp Lys Gly Thr Pro Lys Ser Leu Gly Lys
    1250   1255   1260
Leu Gln Lys Gln Pro Ala Val Gly Ile Asn Ser Pro Leu Tyr Leu Gly
1265   1270   1275   1280
Gly Ile Pro Thr Ser Thr Gly Leu Ser Ala Leu Arg Gln Gly Thr Asp
            1285   1290   1295

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Arg Pro Leu Gly Gly Phe His Gly Cys Ile His Glu Val Arg Ile Asn
            1300                1305                1310
Asn Glu Leu Gln Asp Phe Lys Ala Leu Pro Pro Gln Ser Leu Gly Val
            1315                1320                1325
Ser Pro Gly Cys Lys Ser Cys Thr Val Cys Lys His Gly Leu Cys Arg
        1330                1335                1340
Ser Val Glu Lys Asp Ser Val Val Cys Glu Cys Arg Pro Gly Trp Thr
1345                1350                1355                1360
Gly Pro Leu Cys Asp Gln Glu Ala Arg Asp Pro Cys Leu Gly His Arg
                1365                1370                1375
Cys His His Gly Lys Cys Val Ala Thr Gly Thr Ser Tyr Met Cys Lys
            1380                1385                1390
Cys Ala Glu Gly Tyr Gly Gly Asp Leu Cys Asp Asn Lys Asn Asp Ser
            1395                1400                1405
Ala Asn Ala Cys Ser Ala Phe Lys Cys His His Gly Gln Cys His Ile
        1410                1415                1420
Ser Asp Gln Gly Glu Pro Tyr Cys Leu Cys Gln Pro Gly Phe Ser Gly
1425                1430                1435                1440
Glu His Cys Gln Gln Glu Asn Pro Cys Leu Gly Gln Val Val Arg Glu
                1445                1450                1455
Val Ile Arg Arg Gln Lys Gly Tyr Ala Ser Cys Ala Thr Ala Ser Lys
            1460                1465                1470
Val Pro Ile Met Glu Cys Arg Gly Gly Cys Gly Pro Gln Cys Cys Gln
            1475                1480                1485
Pro Thr Arg Ser Lys Arg Arg Lys Tyr Val Phe Gln Cys Thr Asp Gly
        1490                1495                1500
Ser Ser Phe Val Glu Glu Val Glu Arg His Leu Glu Cys Gly Cys Leu
1505                1510                1515                1520
Ala Cys Ser
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